TOSHIBA

FILE NO. 033-200008

SERVICE MANUAL

COLOUR TELEVISION

C00P Chassis

46WH08G, 46WH08B

– SUMMARY –

46WH08G, 46WH08B are the same as 40WH08G except for the parts and mechamical disassembly and screen adjustment dimensions tabled on back of this sheet.
Use this service manual together with the original service manual of 40WH08G, 40WH08B (File No. 030-200004).

PRINTED IN JAPAN, Aug., 2000 Ⓣ

REPLACEMENT PARTS LIST DIFFERENCES

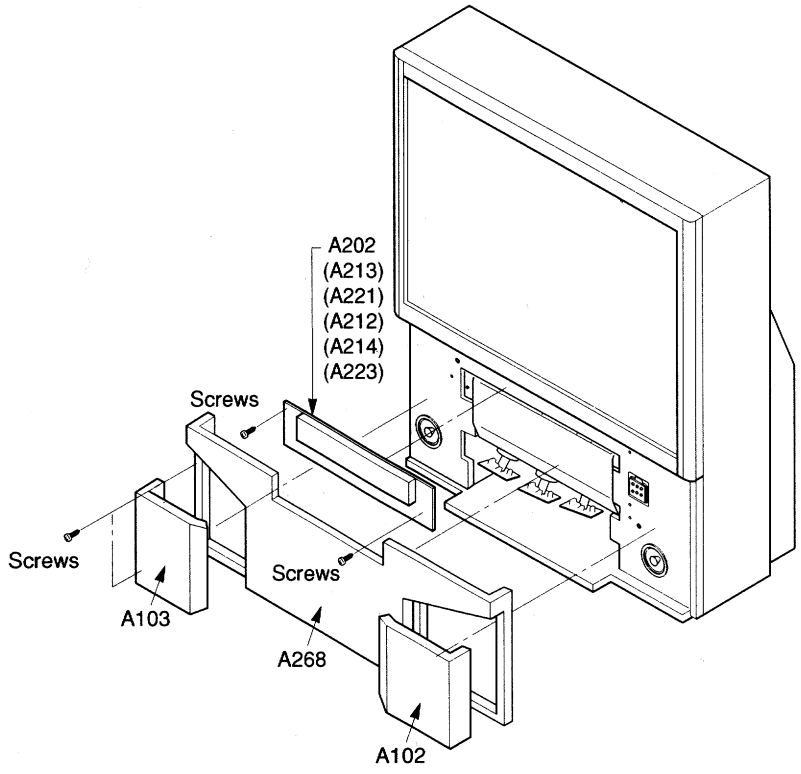
Location No.	Part No.	Description
A101	23411377	Cabinet
A102	23527135	Speaker Grille R
A103	23527136	Speaker Grille L
A201	23005465	Bezel
A424	23411378	Back Board
A701	23064256	Carton
A702	23064261	Carton
A703	23946058	Packing, Top
A710	23946059	Packing, Bottom
C834	24669100	EL, 10μF, ±20%, 50V (46WH08B)
C835	24666470	EL, 47μF, ±20%, 16V (46WH08B)
CF03	24567104	PF, 0.1μF(46WH08B)
CF04	24766101	EL, 100μF, ±20%, 50V (46WH08B)
CF05	24766101	EL, 100μF, ±20%, 50V (46WH08B)
CF06	24774220	Chip, 22pF, CH (46WH08B)
CF07	24774220	Chip, 22pF, CH (46WH08B)
CF08	24567104	PF, 0.1μF (46WH08B)
CF09	24567104	PF, 0.1μF (46WH08B)
CF10	24206100	EL, 10μF, ±20%, 50V (46WH08B)
CF11	24567104	PF, 0.1μF (46WH08B)
CF12	24814103	Chip, 0.01μF, +80%, -20% (46WH08B)
CF14	24814103	Chip, 0.01μF, +80%, -20% (46WH08B)
CF16	24567224	PF, 0.22μF (46WH08B)
CF18	24794101	EL, 100μF, ±20%, 16V (46WH08B)
CF19	24814103	Chip, 0.01μF, +80%, -20% (46WH08B)
CF20	24766010	EL, 1μF, ±20%, 50V (46WH08B)
D832	23115532	Diode, ERB12-01 (46WH08B)
GJ02	24000824	Chip Jumper, 2125Type (46WH08B)
GJ07	24000824	Chip Jumper, 2125Type (46WH08B)
GJ09	24000824	Chip Jumper, 2125Type (46WH08B)
GJ10	24000824	Chip Jumper, 2125Type (46WH08B)
H001	23321346	Tuner, UF822BLW1 (46WH08B)
K101	23430111	Delta, DELTA77-A/B
K102	23430432	Delta, DELTA78-A/B
K103	23430111	Delta, DELTA77-A/B
K501	23430788	Lenti Sheet, SCREEN46KK-L
K502	23430789	Fresnel Sheet, SCREEN46KK-F
K601	23430753	Millor, MIRROR46KE
K902	23306365	Remote Hand Unit, CT-90042 (46WH08B)
LF01	23103775	Coil (Ferrite Bead), TEM2014 (46WH08B)
LF06	23238562	Coil, Peaking, TRF4109AJ (46WH08B)
LF07	23238562	Coil, Peaking, TRF4109AJ (46WH08B)
LF08	23238714	Coil, Peaking, TRF4100AJ (46WH08B)
LF09	23238714	Coil, Peaking, TRF4100AJ (46WH08B)
LF10	23238562	Coil, Peaking, TRF4109AJ (46WH08B)
LF11	23289834	Coil, Peaking, TRF41R0AT (46WH08B)
LF12	23289840	Coil, Peaking, TRF4100AT (46WH08B)
LF13	23289840	Coil, Peaking, TRF4100AT (46WH08B)
LF17	23289840	Coil, Peaking, TRF4100AT (46WH08B)
P801	23372012	Power Cord (46WH08B)
Q832	23905976	IC, PQ05RD11 (46WH08B)
QA01	23000538	IC, 750010-135S (46WH08B)
QF01	23000507	IC, SDA5275-3S (46WH08B))
QF03	23314204	Transistor, 2SC2412K, Q (46WH08B)
QF04	23114437	Transistor, 2SC752GTM-Y (46WH08B)
QF08	23314163	Transistor, 2SA1162-Y (46WH08B)
R864	24553333	OMF, 33k ohm, 1W
RF01	24872332	Chip, 3300 ohm, 1/16W (46WH08B)
RF03	24872682	Chip, 6800 ohm, 1/16W (46WH08B)
RF04	24872223	Chip, 22k ohm, 1/16W (46WH08B)
RF06	24872102	Chip, 1k ohm, 1/16W (46WH08B)
RF08	23103832	Chip (Ferrite Bead), TEM2125M (46WH08B)
RF09	23103832	Chip (Ferrite Bead), TEM2125M (46WH08B)
RF10	23103832	Chip (Ferrite Bead), TEM2125M (46WH08B)
RF11	24872103	Chip, 10k ohm, 1/16W (46WH08B)
RF12	24872101	Chip, 100 ohm, 1/16W (46WH08B)
RF13	24872101	Chip, 100 ohm, 1/16W (46WH08B)
RF14	24872101	Chip, 100 ohm, 1/16W (46WH08B)
RF15	24872103	Chip, 10k ohm, 1/16W (46WH08B)
RF16	24872471	Chip, 470 ohm, 1/16W (46WH08B)
RF20	24872152	Chip, 1500 ohm, 1/16W (46WH08B)
RF21	24000824	Chip, Jumper, 2125 type (46WH08B)
RF22	24872102	Chip, 1k ohm, 1/16W (46WH08B)
RF26	24872102	Chip, 1k ohm, 1/16W (46WH08B)

Location No.	Part No.	Description
RF32	24872101	Chip, 100 ohm, 1/16W (46WH08B)
RF34	24872102	Chip, 1k ohm, 1/16W (46WH08B)
RF39	24872472	Chip, 4700 ohm, 1/16W (46WH08B)
* U104A	23784365	EPG-TEXT(CH)VER.2 Board PB9411B(46WH08B)
* U901A	23785107	CRT-D R Board, PB9483B-1
* U901B	23785108	CRT-D G Board, PB9483B-2
* U901C	23785109	CRT-D B Board, PB9483B-3
* U901D	23785110	SVM-G Board, PB9483B-4
* U901E	23785111	SVM-R Board, PB9483B-5
* U901F	23785112	SVM-B Board, PB9483B-6
* U902A	23785113	Signal Board, PB9484C-1 (46WH08G)
* U902A	23785342	Signal Board, PB9484D-1 (46WH08B)
* U902B	23785114	RGB SW Board, PB9484C-2 (46WH08G)
* U902B	23785343	RGB SW Board, PB9484D-2 (46WH08B)
* U904	23785115	DEF Board, PB9485B
* U907	23785116	D-CONVER Board, PB9486B
* U908	23785016	Power Board, PB9487B (46WH08B)
V911R	23908031	Projection Tube Ass'y, CRT-R
V912B	23908032	Projection Tube Ass'y, CRT-B
V912G	23908033	Projection Tube Ass'y, CRT-G
XA01	23153497	Crystal, 16.0 MHz (46WH08B)
Y101E	23565020	Owner's Manual, English, 46WH08B

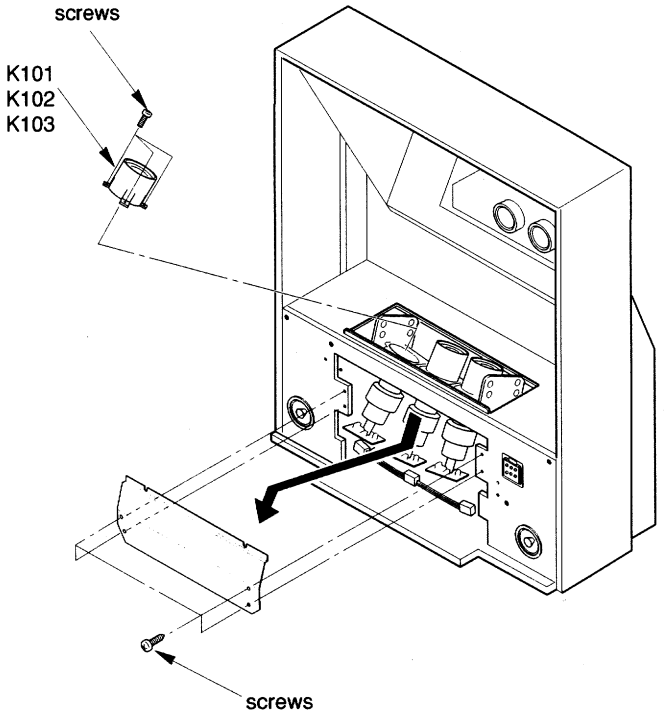
Location No.	Part No.	Description

46"

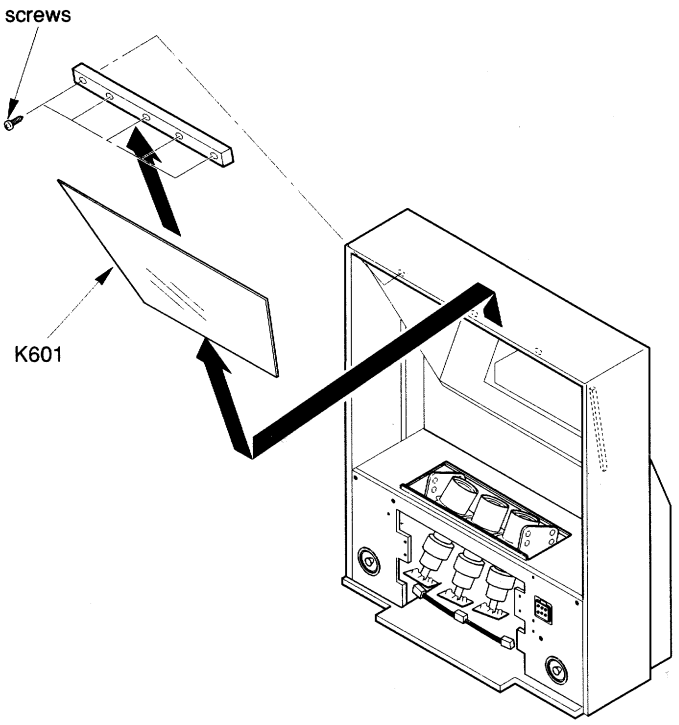
1 Speaker Grille and Control Panel Removal



4 Shield Plate, Lens Removal

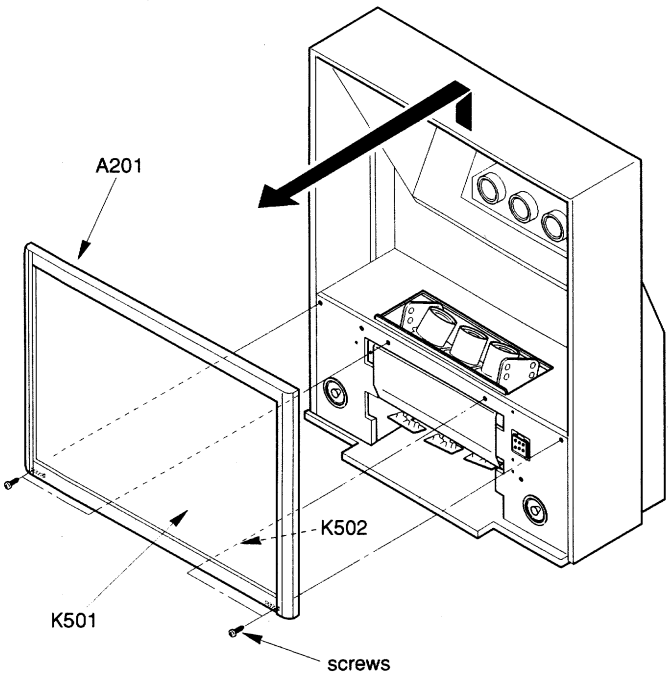


5 Mirror Removal

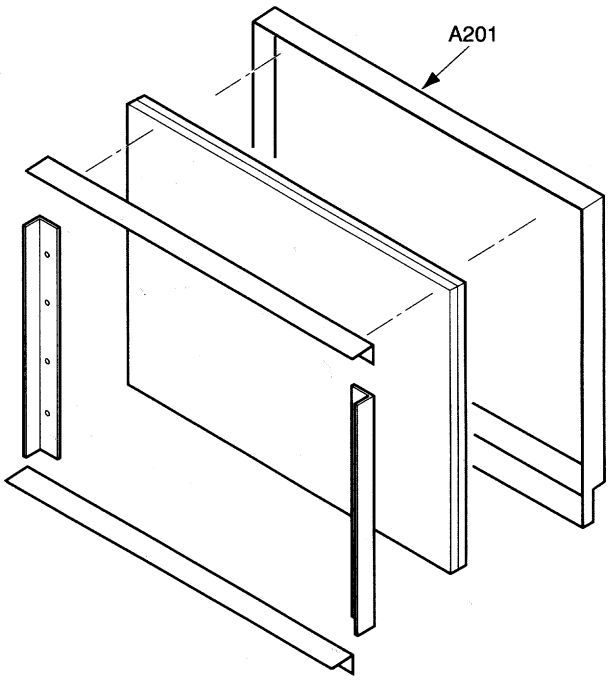


CAL DISASSEMBLY

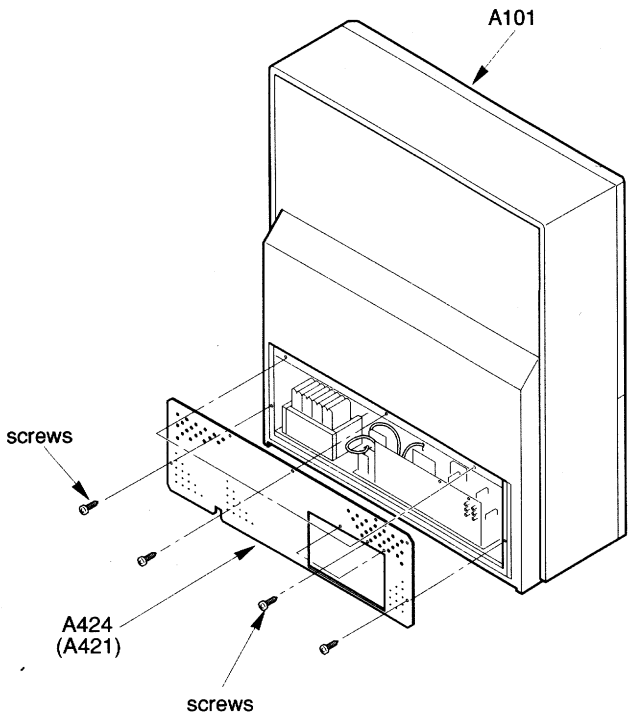
2 Front Mask Removal



3 Mask Removal



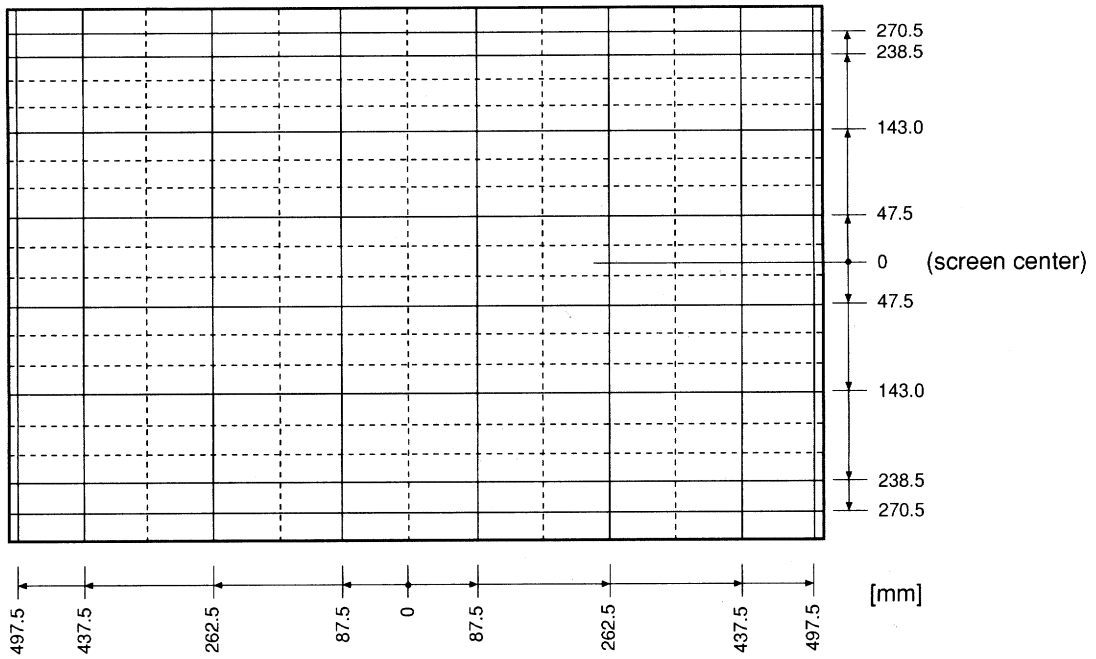
6 Back Board Removal



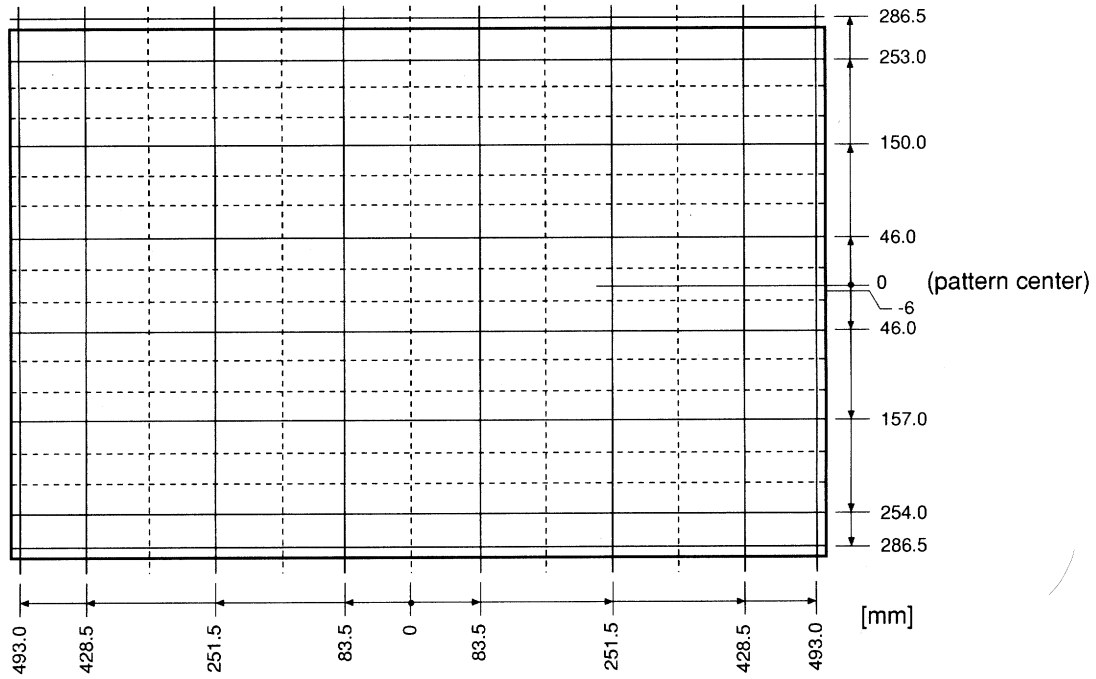
SCREEN ADJUSTMENT DIMENSIONS DIFFERENCES

3 Screen adjustment dimensions

3-1 WIDE/4:3 (PAL mode)



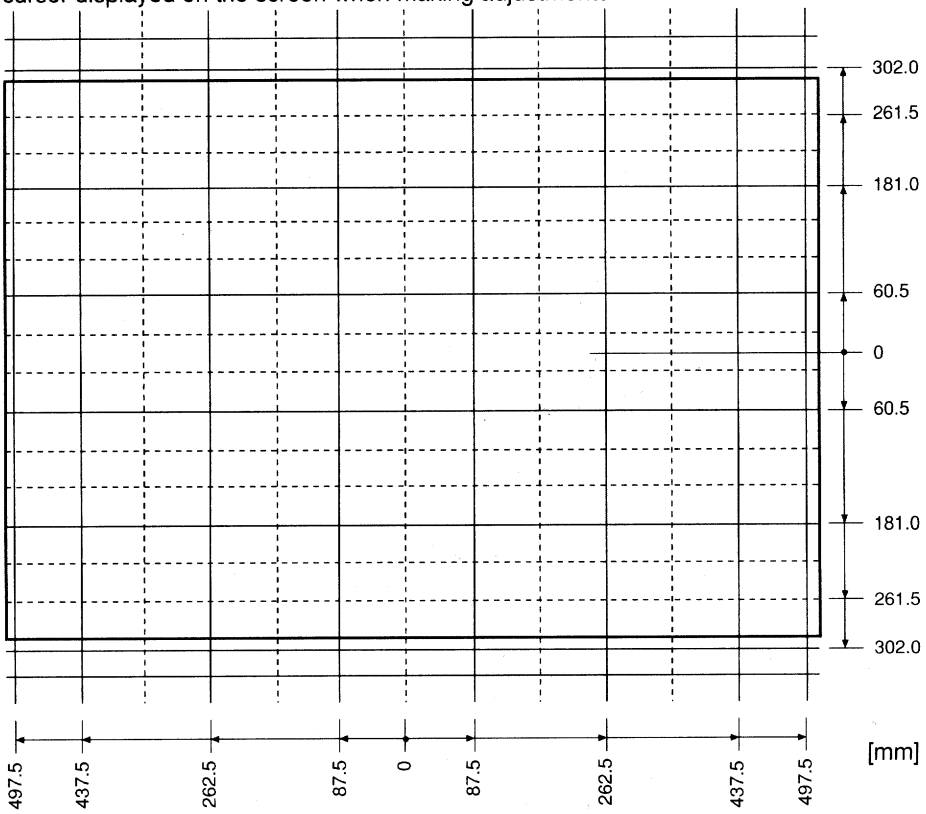
3-2 Super Wide (PAL mode)



Caution: Do not perform the VLIN adjustment.

3-3 Cinema (PAL mode)

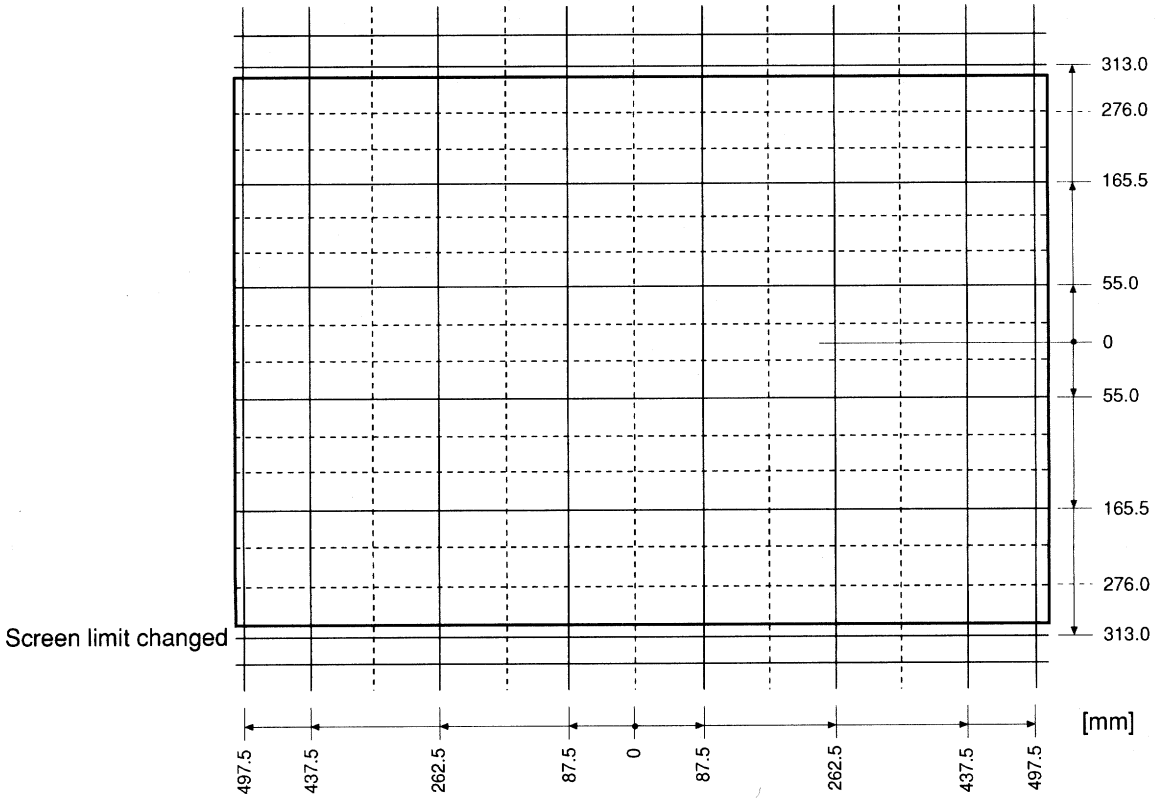
Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.



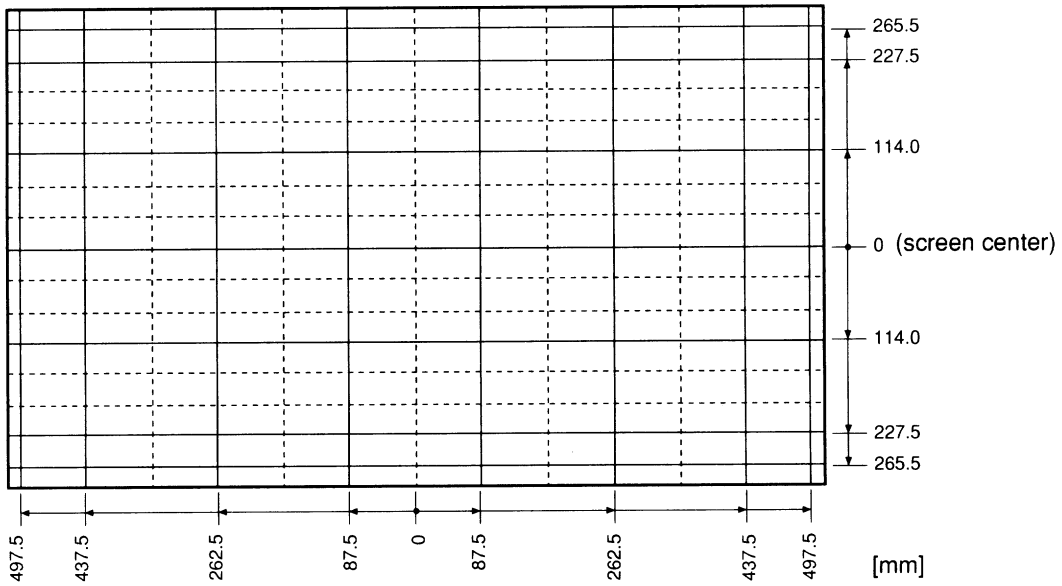
3-4 Subtitle (PAL mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

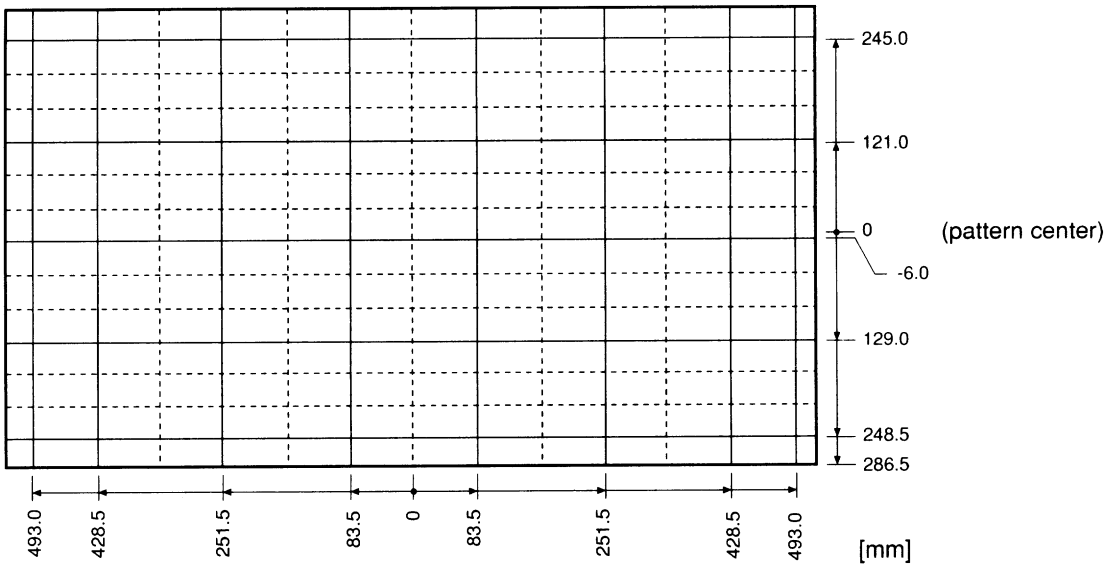
Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.



3-5 WIDE/4:3 (NTSC mode)



3-6 Super Live (NTSC mode)

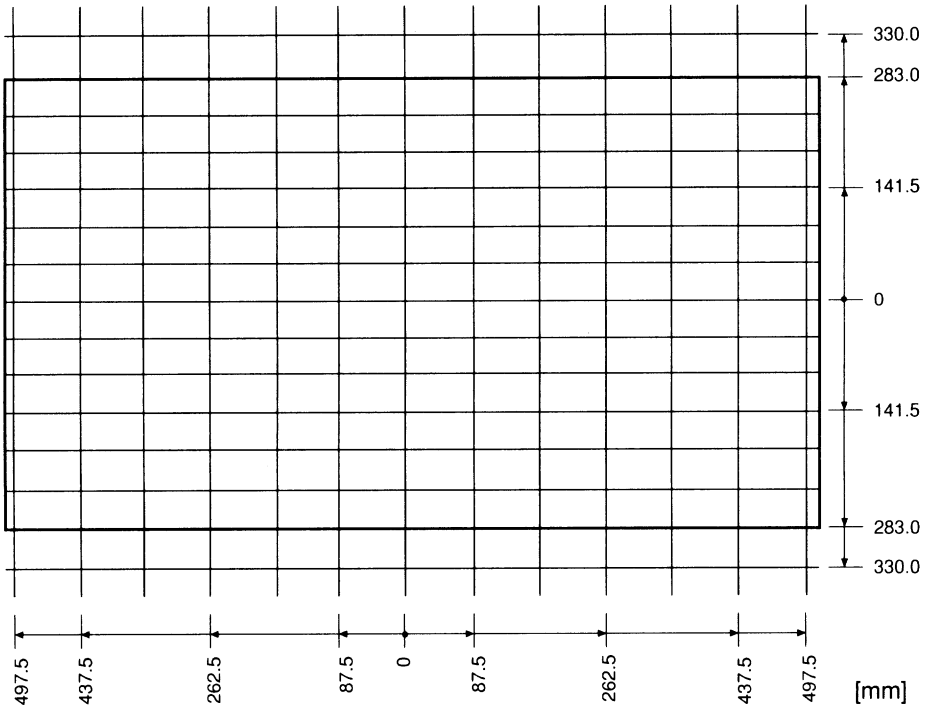


Caution: Do not perform the VLIN adjustment.

3-7 Cinema (NTSC mode)

Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

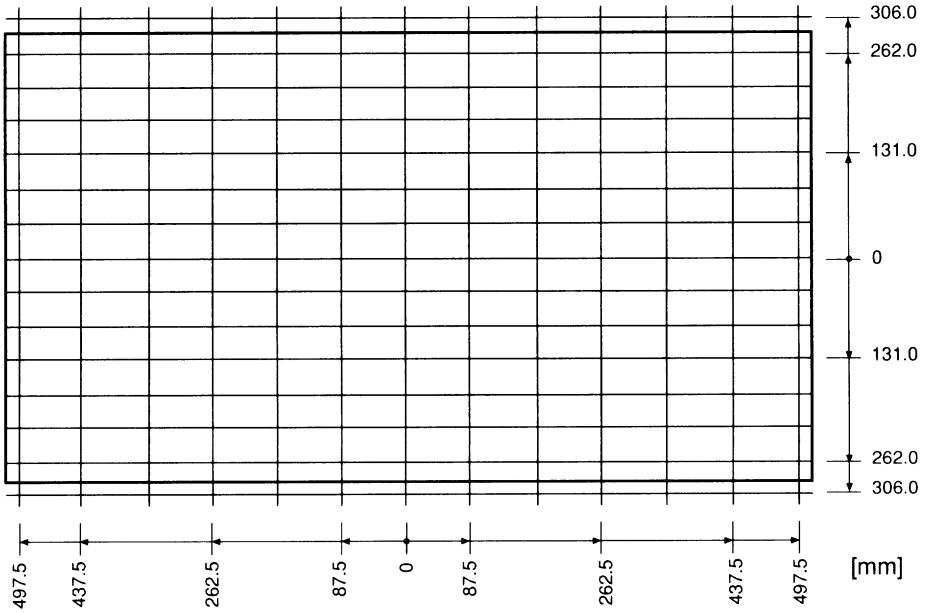
Note: Please be aware that the Cinema screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.



3-8 Subtitle (NTSC mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 32mm above that.



TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 40WH08B / 40WH08G

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

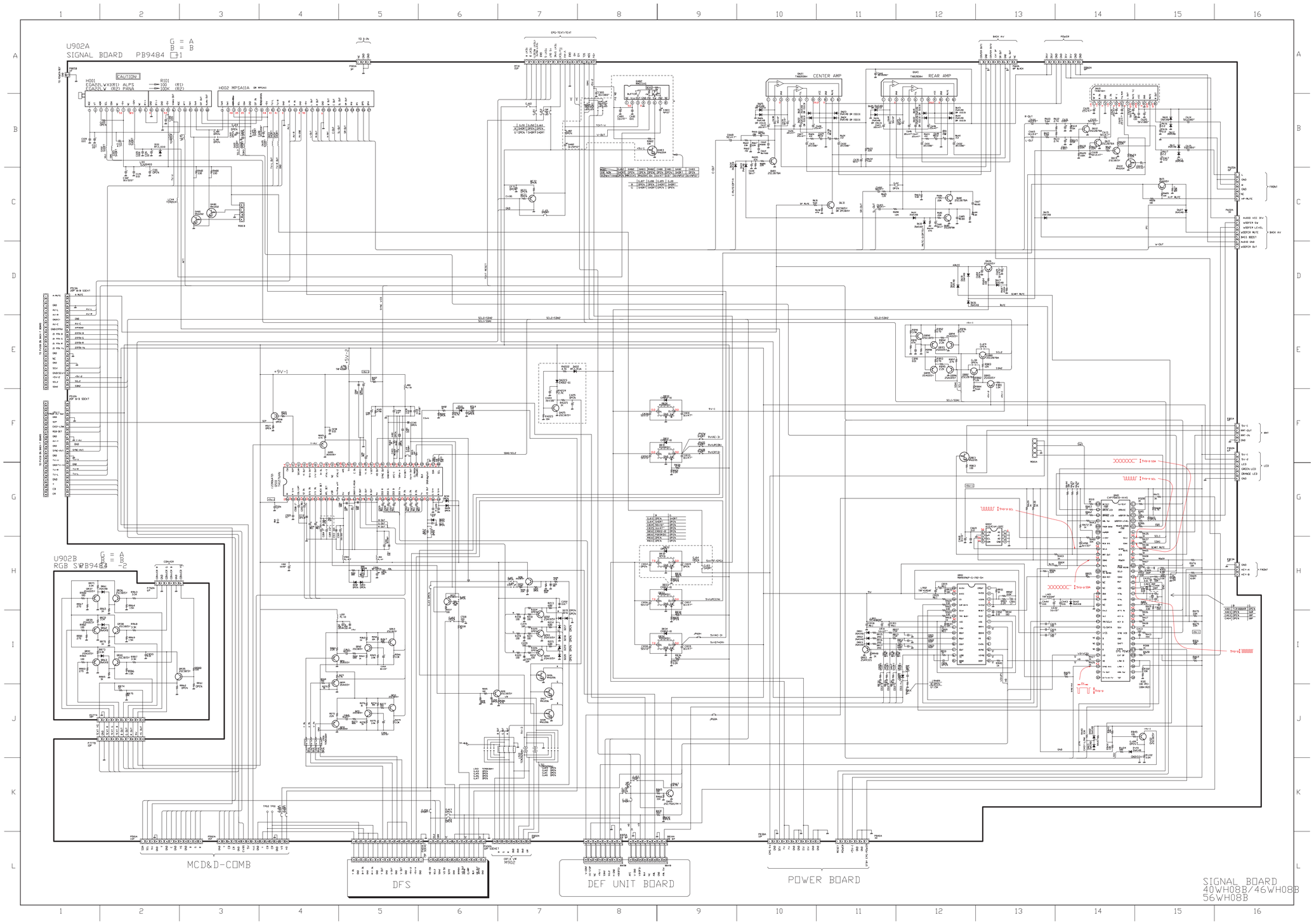
SCHEMATIC DIAGRAM MODEL : 40WH08B / 40WH08G

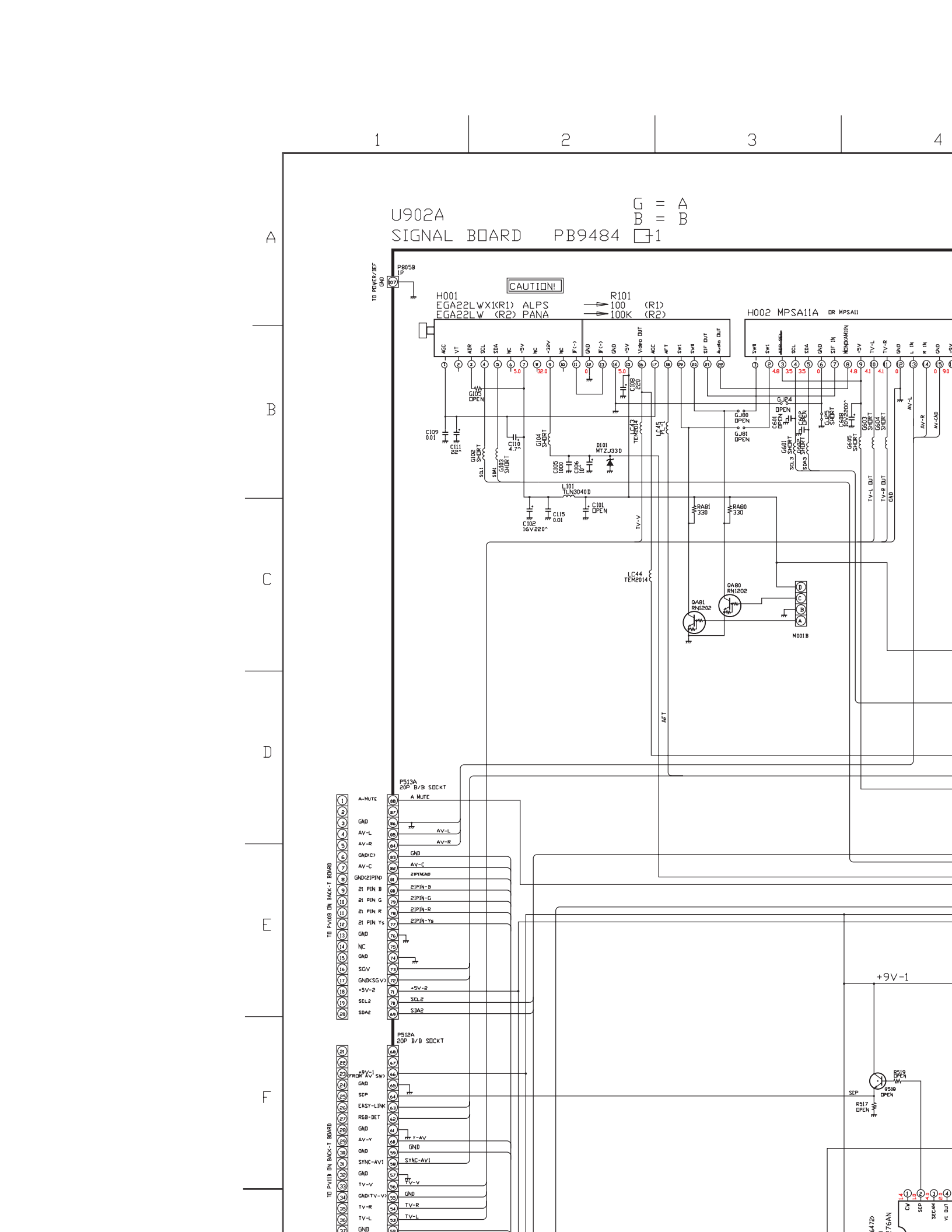
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

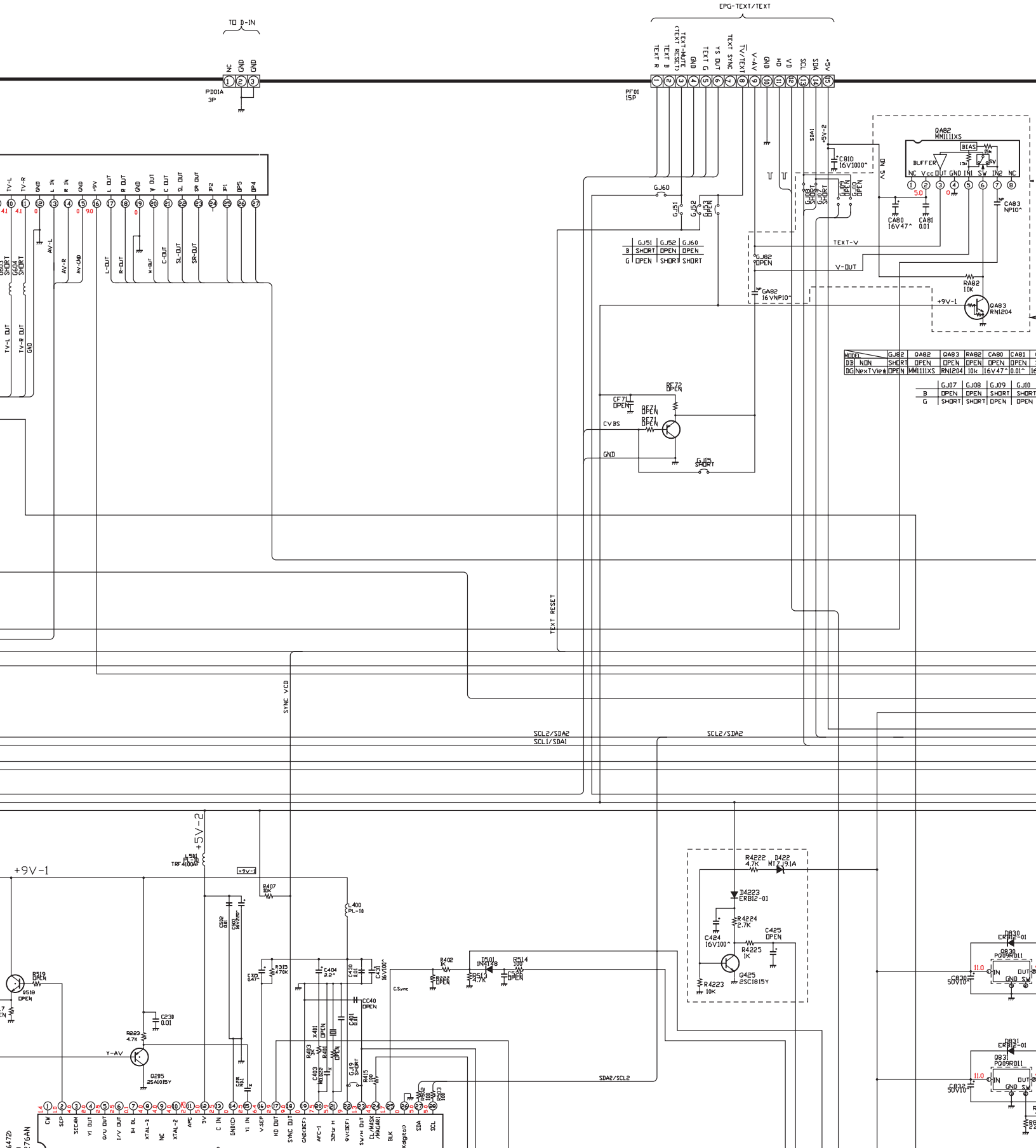
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

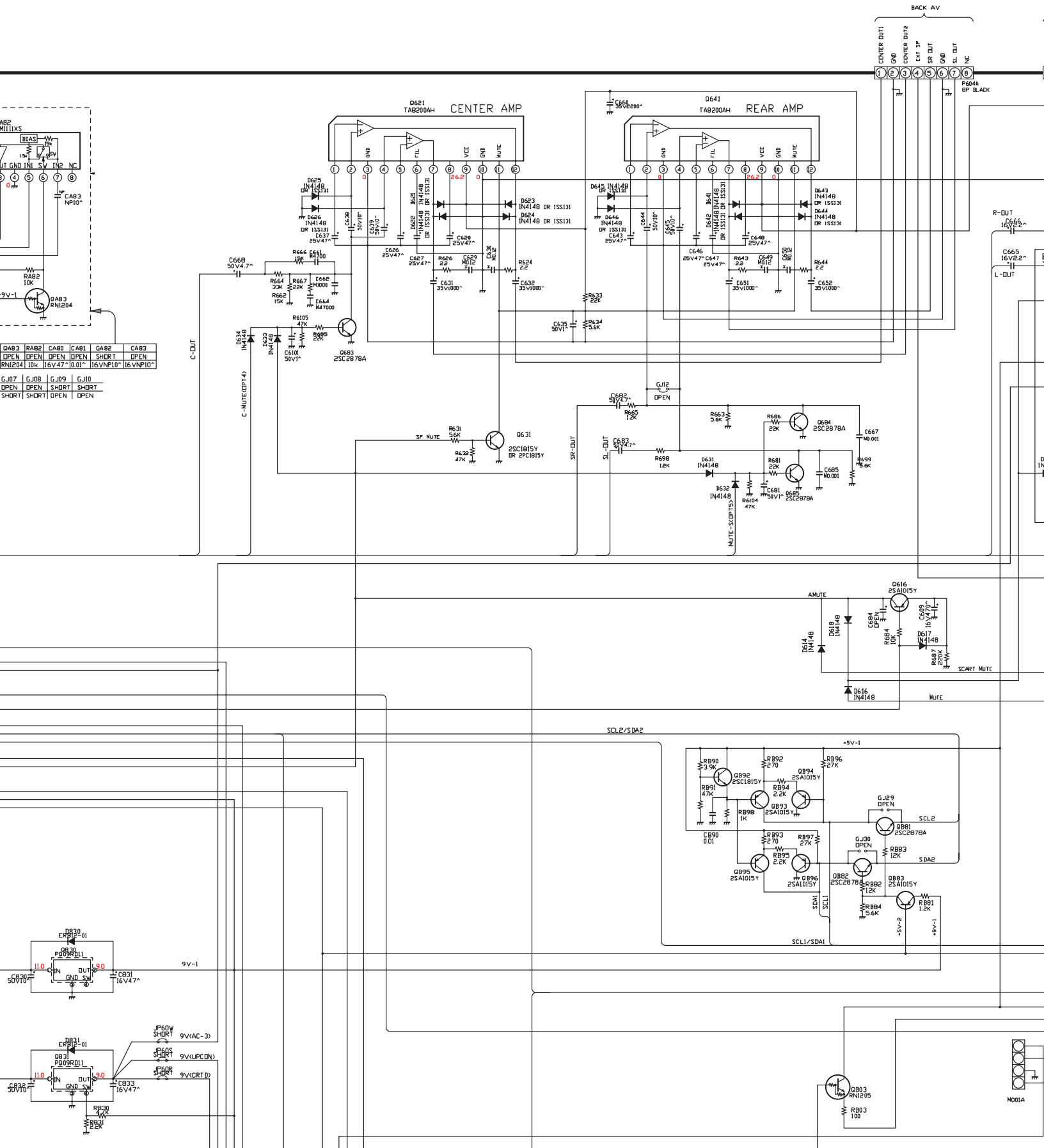
NOTE:

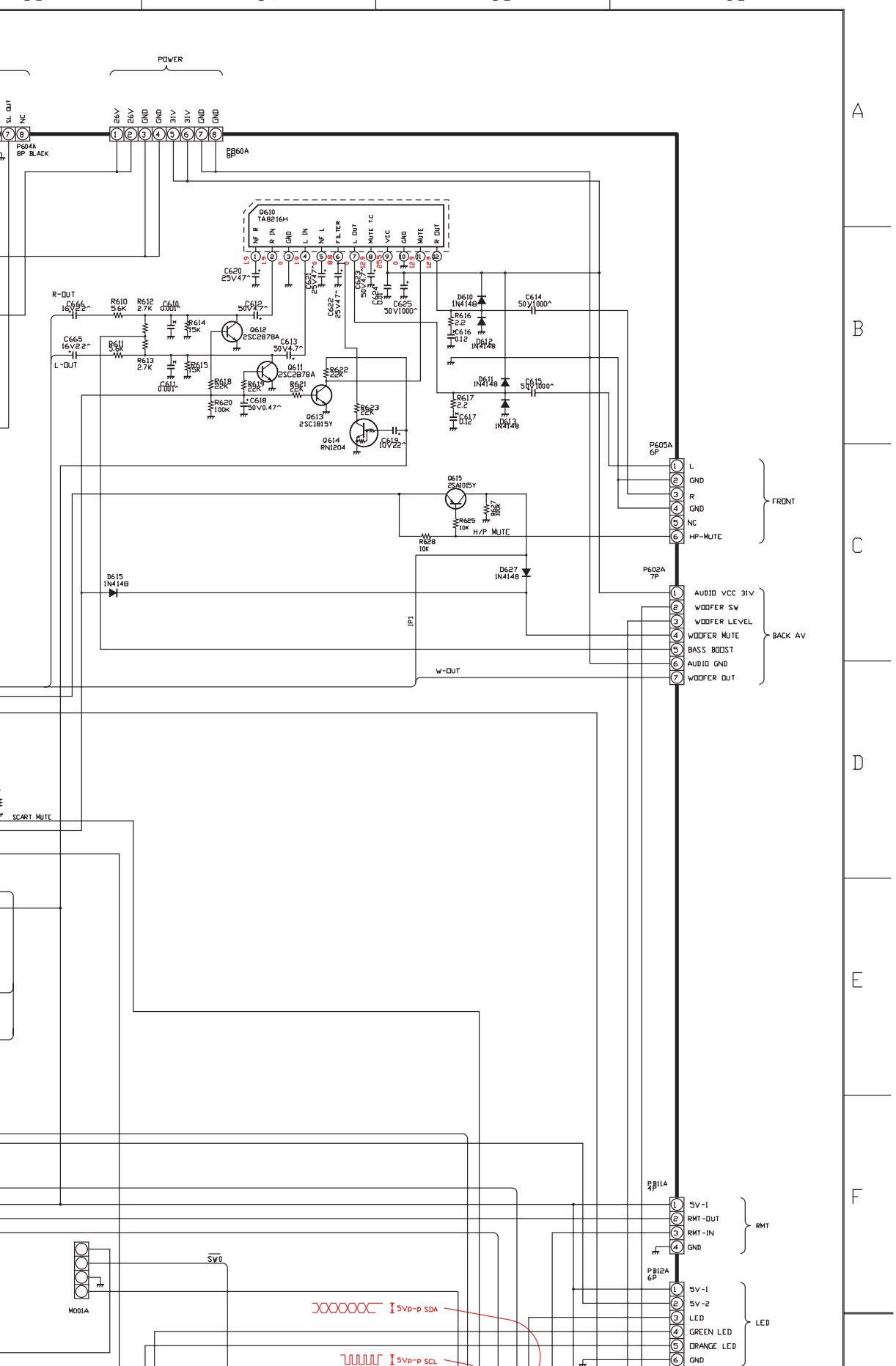
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —||— Electolytic capacitor —|(— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

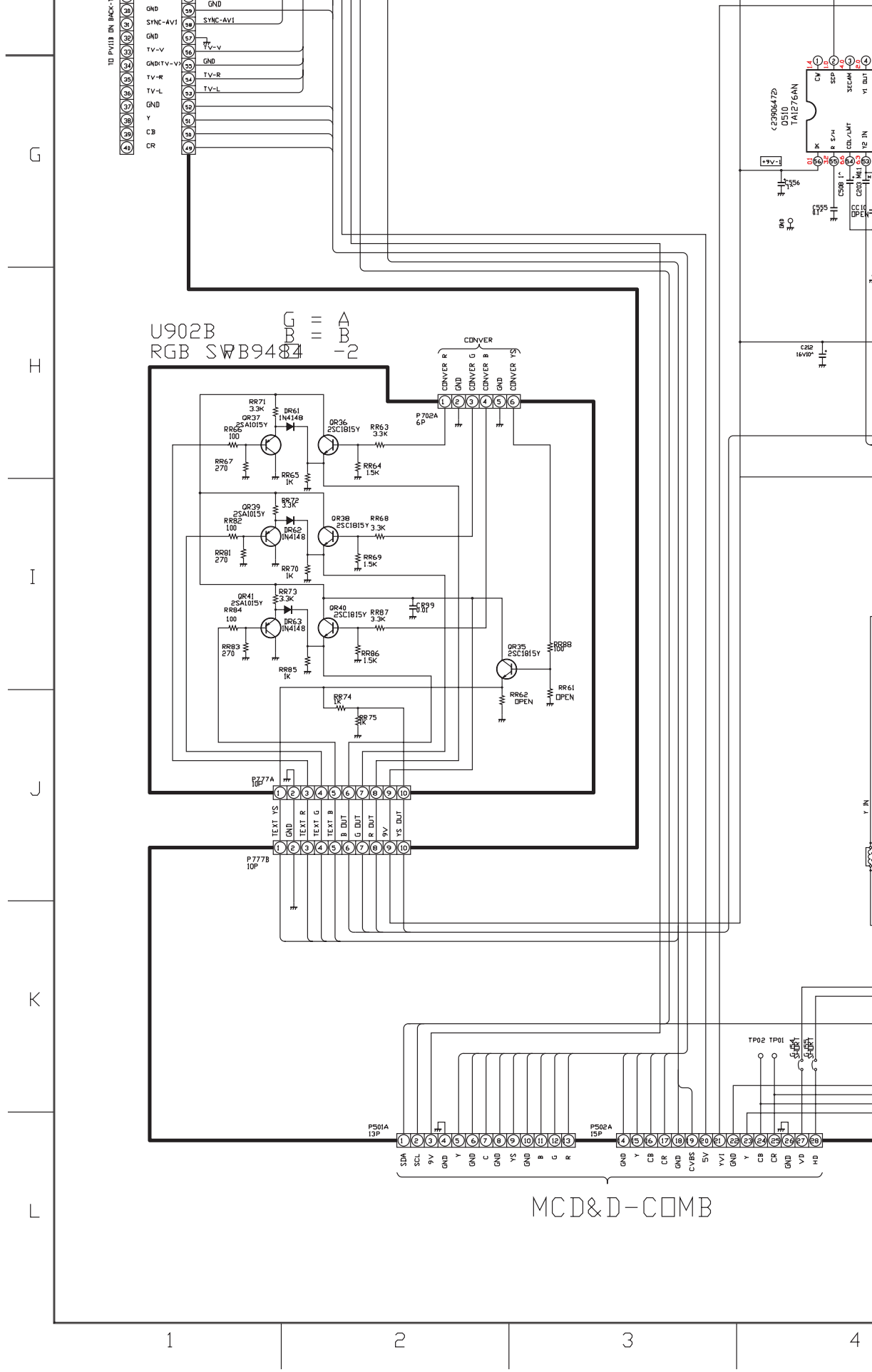


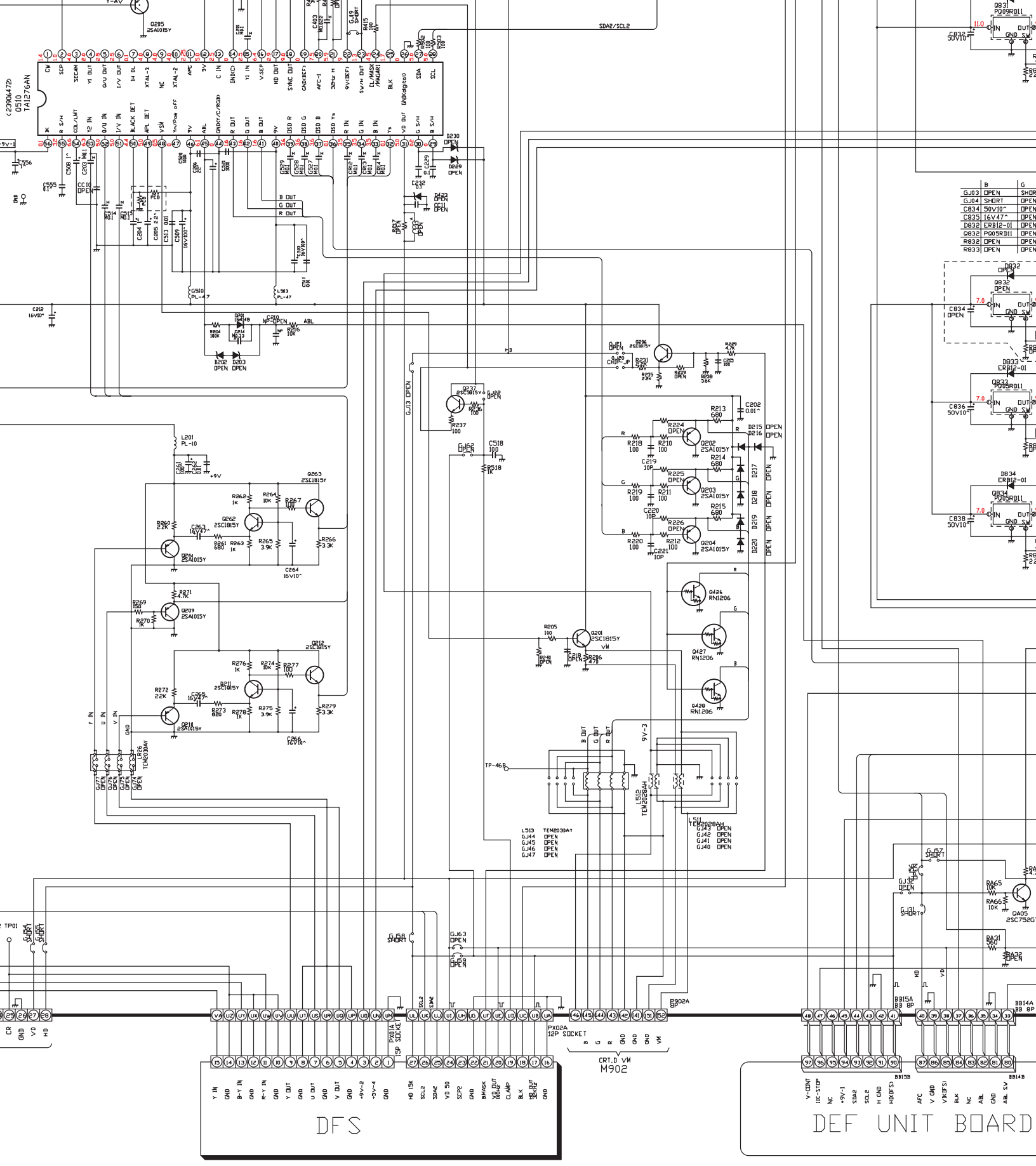

U902A
SIGNAL BOARD PB9484 -1
G = A
B = B
CAUTION!
H001
EGA22LWX1(R1) ALPS
EGA22LW (R2) PANA
R101
100 (R1)
100K (R2)
H002 MPSA11A DR MPSA11
P805B
TO POWER/REF
P513A
20P B/B SOCKT
TO PV10B DN BACK-T BOARD
P512A
20P B/B SOCKT
TO PV11B DN BACK-T BOARD
+9V-1
SCP
AFT
TV-V
AV-L
AV-R
TV-L OUT
TV-R OUT
M001B


TO D-IN
P001A
3P
NC
GND
GND
EPG-TEXT/TEXT
PF01
15P
TEXT R
TEXT B
TEXT RESET
GND
TEXT G
TEXT SYNC
TV/TEXT
V-AV
GND
H
V
SCL
SDA
+5V
+5V-2
C810
16V1000^
QA82
MM1111XS
BIAS
BUFFER
NC Vcc OUT GND IN1 SW IN2 NC
CA80
16V47^
CA81
0.01
CA83
NP10^
GJ51 GJ52 GJ60
B SHORT OPEN OPEN
G OPEN SHORT SHORT
GJ82
OPEN
TEXT-V
V-OUT
GA82
16VNP10^
RA82
10K
+9V-1
QA83
RN1204
MODEL GJ82 QA82 QA83 RA82 CA80 CA81
DB NON SHORT OPEN OPEN OPEN OPEN OPEN
DG NextView OPEN MM1111XS RN1204 10k 16V47^ 0.01^
GJ07 GJ08 GJ09 GJ10
B OPEN OPEN SHORT SHORT
G SHORT SHORT OPEN OPEN
TV-L
TV-R
GND
L IN
R IN
GND
+9V
L OUT
R OUT
GND
V OUT
C OUT
SL OUT
SR OUT
IP2
IP1
DP5
DP4
AV-L
AV-R
AV-GND
L-OUT
R-OUT
V-OUT
C-OUT
SL-OUT
SR-OUT
TV-L OUT
TV-R OUT
GND
GA03 SHORT
GA04 SHORT
RF72 OPEN
CF71 OPEN
RF71 OPEN
RF71 OPEN
CVBS
GND
GJ15 SHORT
TEXT RESET
SYNC VCD
SCL2/SDA2
SCL1/SDA1
SCL2/SDA2
+5V-2
+9V-1
L501
TRF-4100AF
+9V-1
R407 10K
L400 PL-10
CN02 GB
CN03 GB
R313 4.70K
C404 0.47
C430 0.01
C431 16V100^
C230 0.01
R223 4.7K
Y-AV
Q205 2SA1015Y
R519 OPEN
Q519 OPEN
R402 1K
R522 OPEN
D501 1N4148
R514 4.7K
C39 OPEN
CSync
CC40 OPEN
X401 OPEN
C401 0.01
R403 1K
R401 OPEN
C403 MD1.2
CER 1N1
GJ49 SHORT
R415 1K
SDA2/SCL2
R4222 4.7K
D422 MTZJ9.1A
D4223 ERB12-01
R4224 2.7K
C424 16V100^
C425 OPEN
R4225 1K
Q425 2SC1815Y
R4223 10K
D830 ERB12-01
Q830 PQ09RD11
C830 50V10^
D831 ERB12-01
Q831 PQ09RD11
C832 50V10^
CW
SEP
SECAM
Y1 OUT
G/U OUT
I/V OUT
M BL
XTAL-3
NC
XTAL-2
APC
5V
C IN
BAR(C)
Y1 IN
V-SEP
H-D OUT
SYNC OUT
GND(DEF)
AFC-1
3.8MHz H
9V(DEF)
SVM OUT
CL/MASK
/MAGAR1
BLK
SDA
SCL

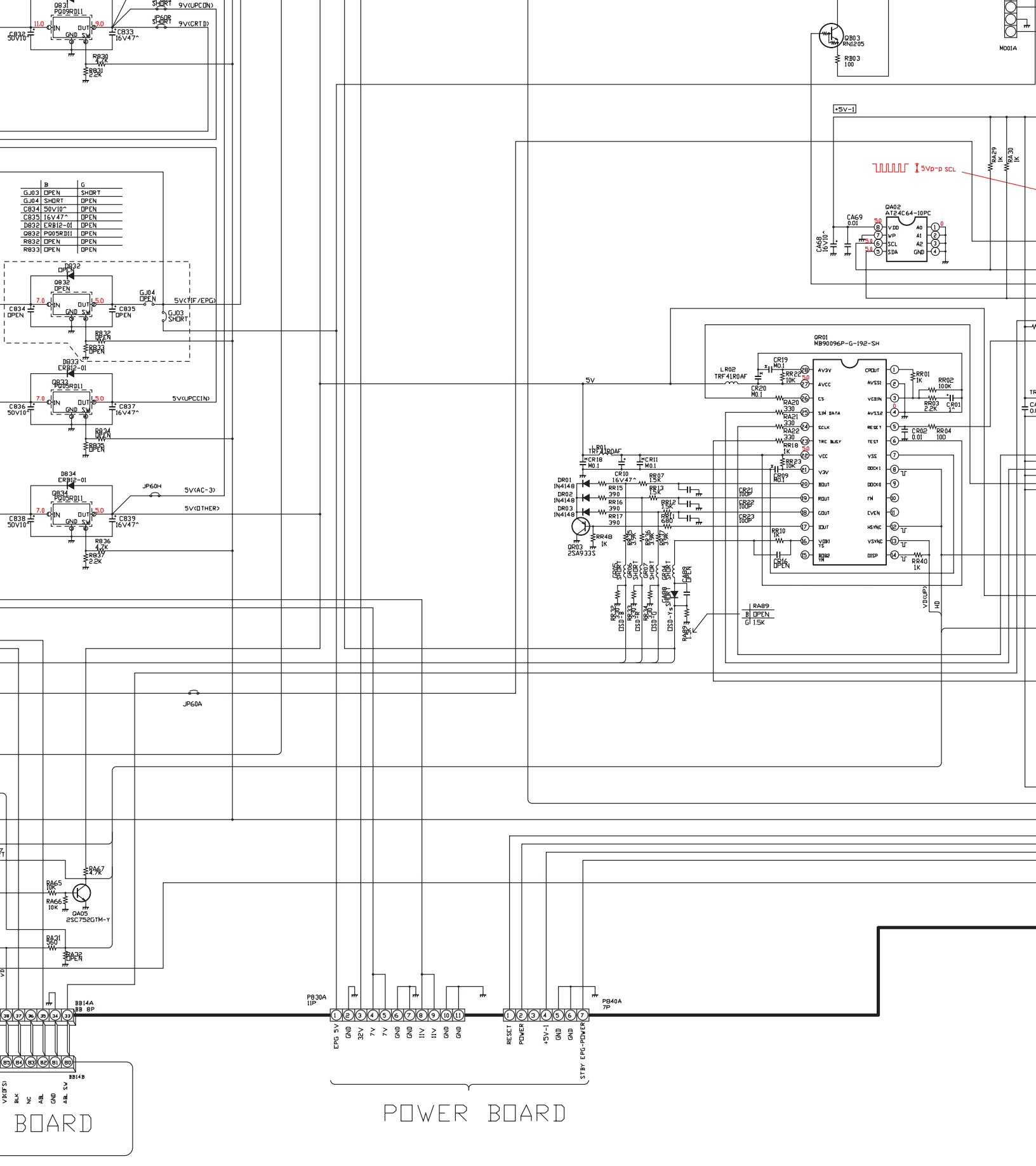

9
10
11
12
13
BACK AV
CENTER OUT1
GND
CENTER OUT2
EXT SP
SR OUT
GND
SL OUT
NC
P604A
6P BLACK
Q621
TA8200AH
CENTER AMP
Q641
TA8200AH
REAR AMP
GND
FIL
VCC
GND
MUTE
R-OUT
L-OUT
C-OUT
C-MUTE(OPT14)
SR-OUT
SL-OUT
MUTE-SC(OPT15)
SP MUTE
Q631
2SC1815Y
Q683
2SC2878A
Q684
2SC2878A
Q685
2SC2878A
Q616
2SA1015Y
AMUTE
SCART MUTE
MUTE
SCL2/SDA2
SCL1/SDA1
SCL2
SDA2
SDA1
SCL1
Q892
2SC1815Y
Q893
2SA1015Y
Q894
2SA1015Y
Q895
2SA1015Y
Q896
2SA1015Y
Q881
2SC2878A
Q882
2SC2878A
Q883
2SA1015Y
Q803
RN1205
MOD1A
D830
ER812-01
Q830
PQ09RD11
D831
ER812-01
Q831
PQ09RD11
9V-1
9V(AC-3)
9V(UPCON)
9V(CRTD)
+5V-1
+5V-2
+9V-1
BIAS
Q883
RN1204
QA83 QA82 QA80 QA81 QA82 QA83
OPEN OPEN OPEN OPEN SHORT OPEN
RN1204 10k 16V47^ 0.01^ 16VNP10^ 16VNP10^
GJ07 GJ08 GJ09 GJ10
OPEN OPEN SHORT SHORT
SHORT SHORT OPEN OPEN


13
14
15
16
A
B
C
D
E
F
POWER
P604A
8P BLACK
P860A
8P
26V
26V
GND
GND
31V
31V
GND
GND
Q610
TA8216H
NF R
R IN
GND
L IN
NF L
FILTER
L OUT
MUTE T.C
VCC
GND
MUTE
R OUT
R-OUT
L-OUT
C620
25V47^
C621
25V47^
C622
25V47^
C623
50V47^
C624
0.01^
C625
50V1000^
C626
16V2.2^
R610
5.6K
R612
2.7K
C610
0.001^
R614
15K
C612
50V47^
Q612
2SC2878A
C613
50V4.7^
C665
16V2.2^
R611
5.6K
R613
2.7K
C611
0.001^
R615
15K
R618
22K
R619
22K
C618
50V0.47^
R620
100K
Q611
2SC2878A
R622
22K
R621
22K
Q613
2SC1815Y
R623
22K
Q614
RN1204
C619
10V22^
D610
1N4148
R616
2.2
C616
0.12
D612
1N4148
C614
50V1000^
D611
1N4148
R617
2.2
C617
0.12
D613
1N4148
C615
50V1000^
P605A
6P
L
GND
R
GND
NC
HP-MUTE
FRONT
Q615
2SA1015Y
R627
680
R625
10K
H/P MUTE
R628
10K
D627
1N4148
D615
1N4148
P602A
7P
AUDIO VCC 31V
WOOFER SW
WOOFER LEVEL
WOOFER MUTE
BASS BOOST
AUDIO GND
WOOFER OUT
BACK AV
JP1
W-OUT
SCART MUTE
P811A
4P
5V-1
RMT-OUT
RMT-IN
GND
RMT
P812A
6P
5V-1
5V-2
LED
GREEN LED
ORANGE LED
GND
LED
M001A
SW0
5Vp-p SDA
5Vp-p SCL

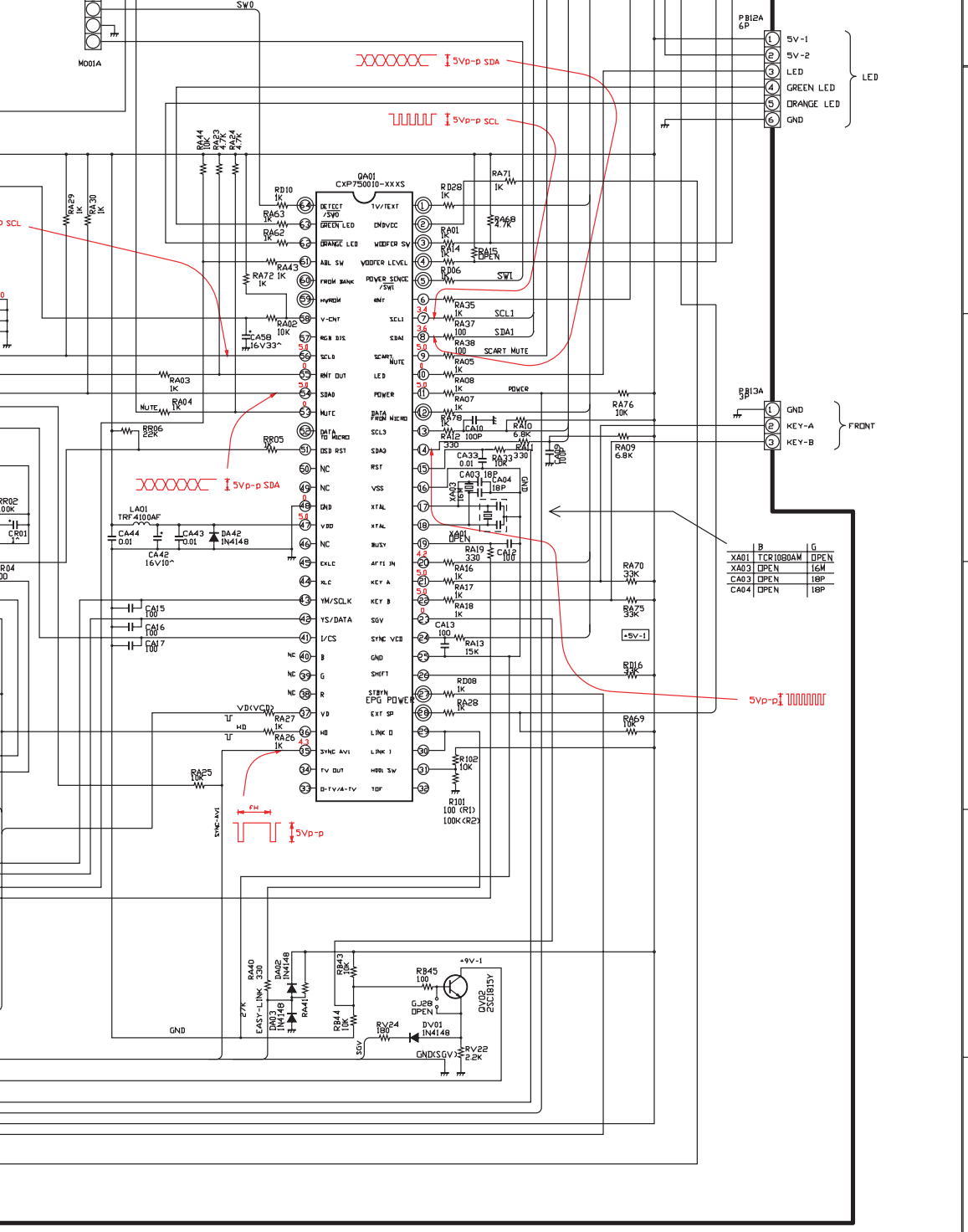

U902B
RGB SWB9484
G = A
B = B
-2
CONVER
P702A
6P
P777A
10P
P777B
10P
P501A
13P
P502A
15P
MCD&D-COMB


DFS
DEF UNIT BOARD
CRT,D VM
M902
PX02A
12P SOCKET
PW01A
15P SOCKET
BB15A
BB 8P
BB14A
BB 8P
BB15B
BB14B
TA1276AN
TEM2030AY
TEM2028AH
TCM2030AY
Y IN
U IN
V IN
GND
B OUT
G OUT
R OUT
9V-3
HD
VD
SDA2/SCL2
V-CONT
IIC-STOP
NC
+9V-1
SDA2
SCL2
H GND
HDDFS
AFC
V GND
VRDFS
BLK
NC
ABL
GND
ABL SW

4		5		6		7	8


Q831 PQ09RD11
C832 50V10^
C833 16V47^
R830 4.7K
R831 2.2K
JP60R SHORT
9V(UPCON)
9V(CRTD)
B G
GJ03 OPEN SHORT
GJ04 SHORT OPEN
C834 50V10^ OPEN
C835 16V47^ OPEN
D832 ERB12-01 OPEN
Q832 PQ05RD11 OPEN
R832 OPEN OPEN
R833 OPEN OPEN
D832 OPEN
Q832 OPEN
GJ04 OPEN
5V(TIF/EPG)
GJ03 SHORT
C834 OPEN
C835 OPEN
R832 OPEN
R833 OPEN
D833 ERB12-01
Q833 PQ05RD11
5V(UPCCIN)
C836 50V10
C837 16V47^
R834 OPEN
R835 OPEN
D834 ERB12-01
Q834 PQ05RD11
JP60H
5V(AC-3)
5V(OTHER)
C838 50V10
C839 16V47^
R836 4.7K
R837 2.2K
JP60A
Q803 RNI205
RB03 100
MD01A
+5V-1
5Vp-p SCL
RA29 1K
RA30 1K
QA02 AT24C64-10PC
CA69 0.01
CA68 16V10^
A0 A1 A2 GND
VDD WP SCL SDA
QR01 MB90096P-G-192-SH
LR02 TRF41R0AF
CR19 M0.1
CR20 M0.1
RR22 10K
RA20 330
RA21 330
RA22 330
RR18 1K
RR23 10K
CR09 M0.1
CR10 16V47^
CR11 M0.1
CR18 M0.1
RR07 15K
RR12 15K
RR13 15K
CR21 100P
CR22 100P
CR23 100P
RR10 1K
CR16 OPEN
RR40 1K
RR01 1K
RR02 100K
RR03 2.2K
CR01 1^
CR02 0.01
RR04 100
AV3V AVCC CS XIN DATA SCLK TRC BUSY VCC V3V RDOUT GDOUT BDOUT VDD1 VSS1
CPOUT AVSS1 VCOMN AVSS2 RESET TEST VSS CCOCK1 CCOCK2 FH EVEN HSYNC VSYNC DISP
DR01 IN4148
DR02 IN4148
DR03 IN4148
RR15 390
RR16 390
RR17 390
RR48 1K
DR03 2SA933S
RR32 330
RR33 330
RR34 330
RR35 3.9K
RR36 3.9K
RR37 3.9K
CR05 SHORT
CR06 SHORT
CR07 SHORT
CR04 SHORT
CA68 OPEN
RA89 1.5K
VD(UP)
HD
RA67 4.7K
RA65 10K
RA66 10K
QA05 2SC752GTM-Y
RA31 560
RA32 OPEN
P830A 11P
P840A 7P
BB14A BB BP
BB14B
EPG 5V
GND
32V
7V
7V
GND
GND
11V
11V
GND
GND
RESET
POWER
+5V-1
GND
GND
STBY EPG-POWER
VD(DFS)
BLK
NC
ADL
GND
ADL 5V
POWER BOARD
BOARD

9	10	11	12	13



SIGNAL BOARD
40WH08B/46WH08B
56WH08B

G H I J K L

13 14 15 16

DEF

U908 POWER
PB9487□

G=A
B=B

LIVE AREA

LIVE AREA

SIGNAL

TO SIGNAL

B:NOT USE
G:USE

AUDIO 26V

AUDIO 31V

11V

+15V

-15V

HVCC

7V

5V-1

32V

EPG 5V

GND

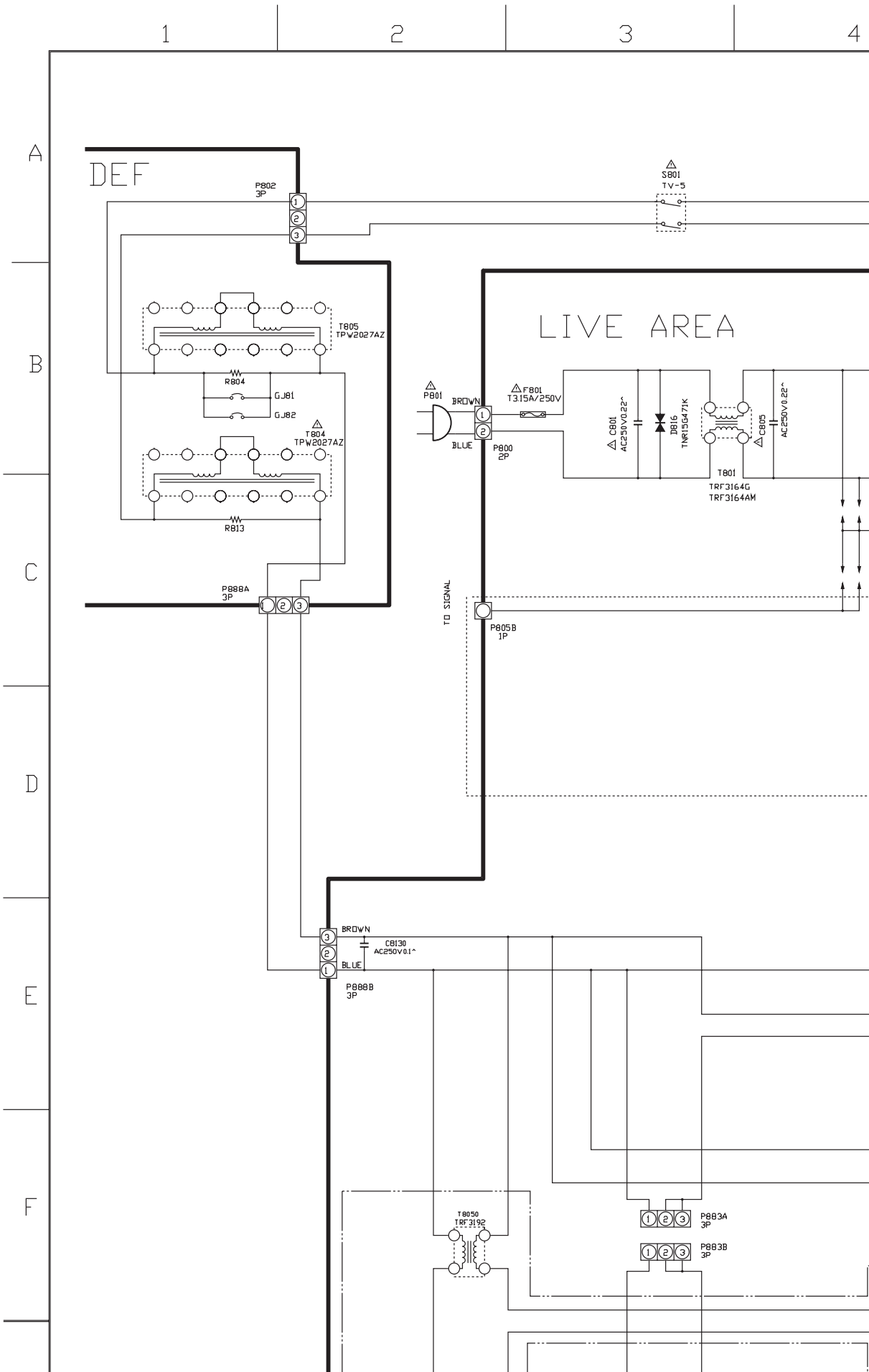
CONVER

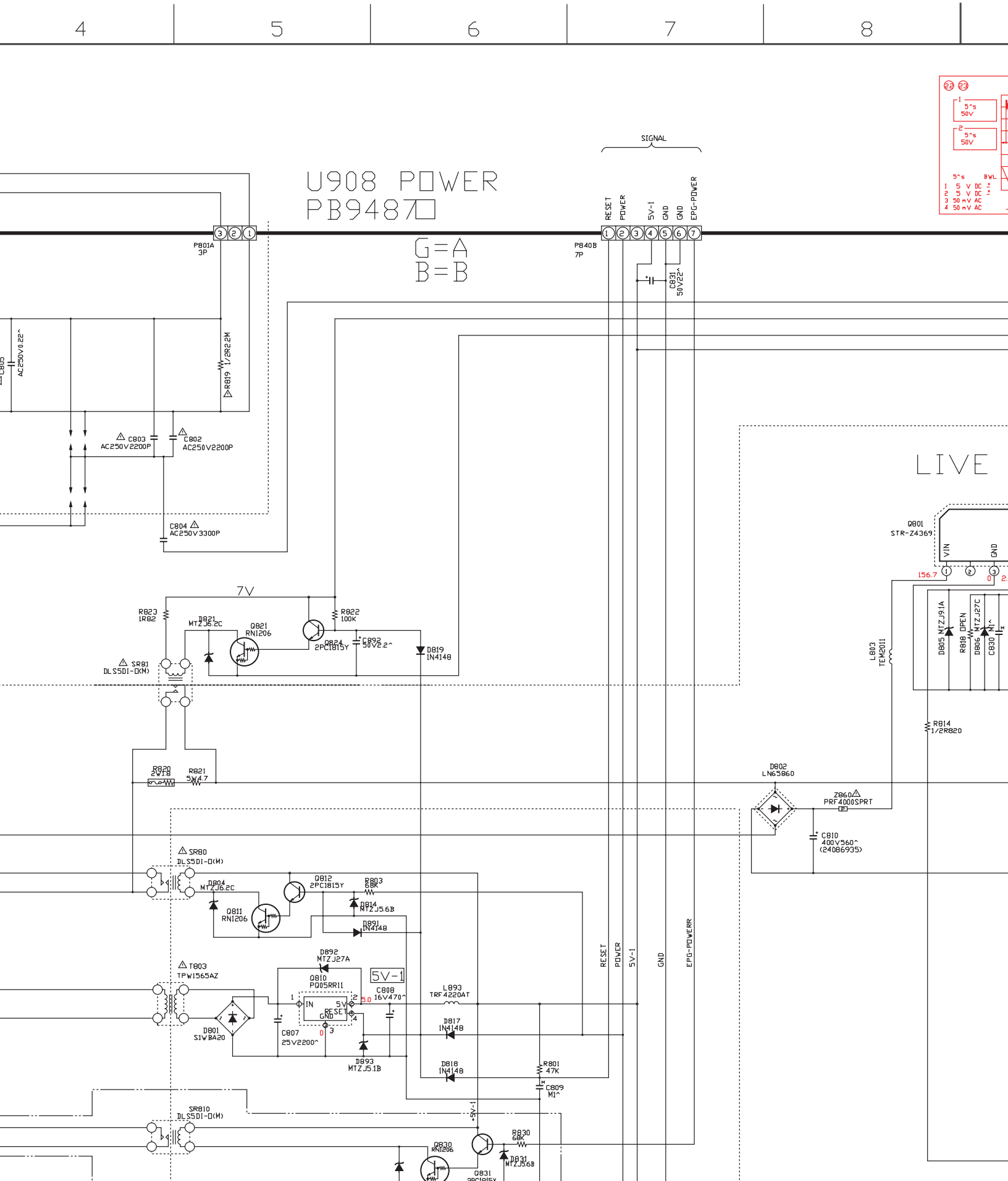
SVM

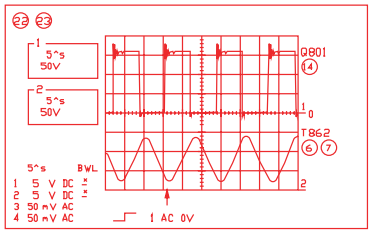
DEF

SIGNAL

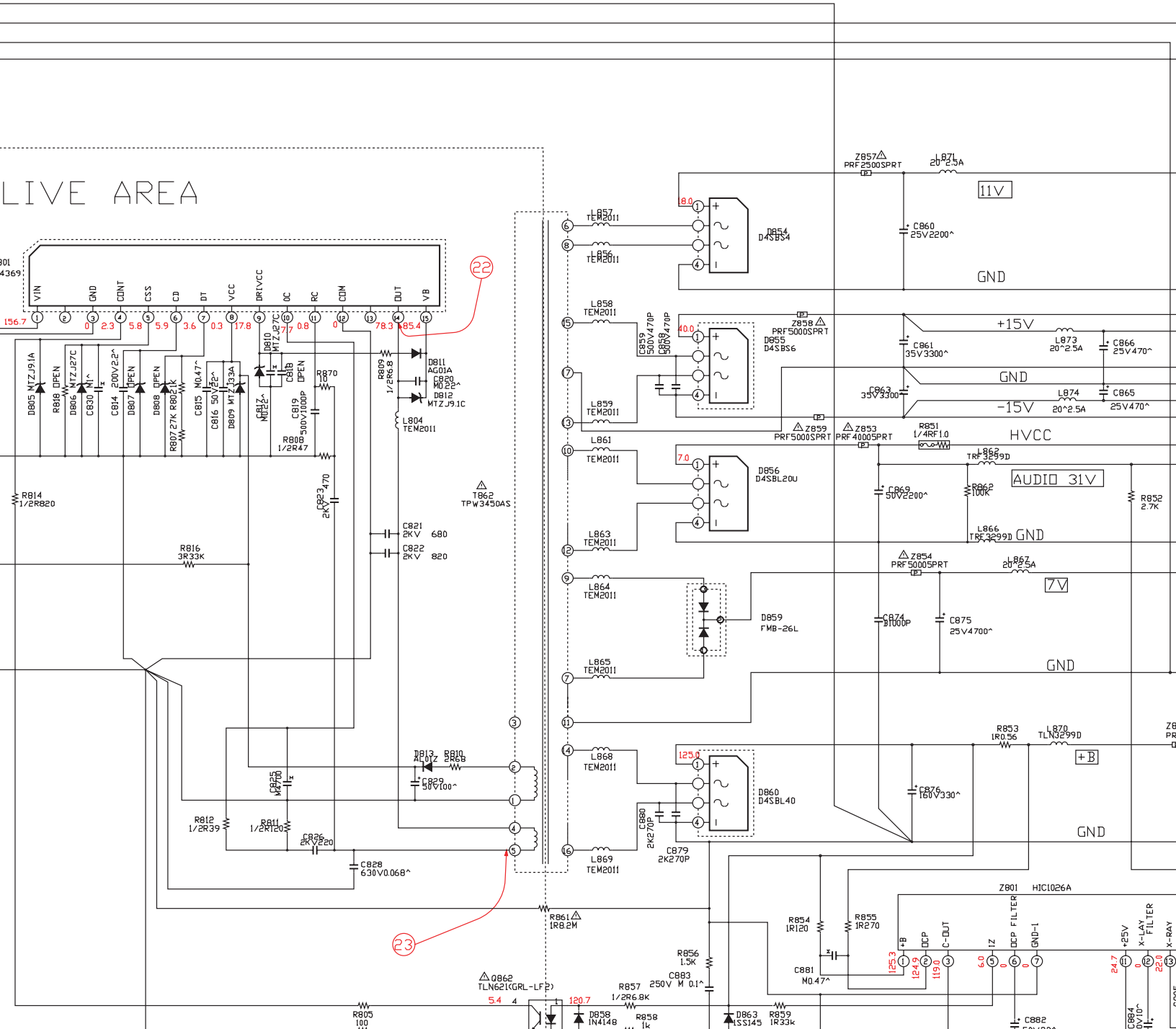
POWER
40WH08B/46WH08B
56WH08B

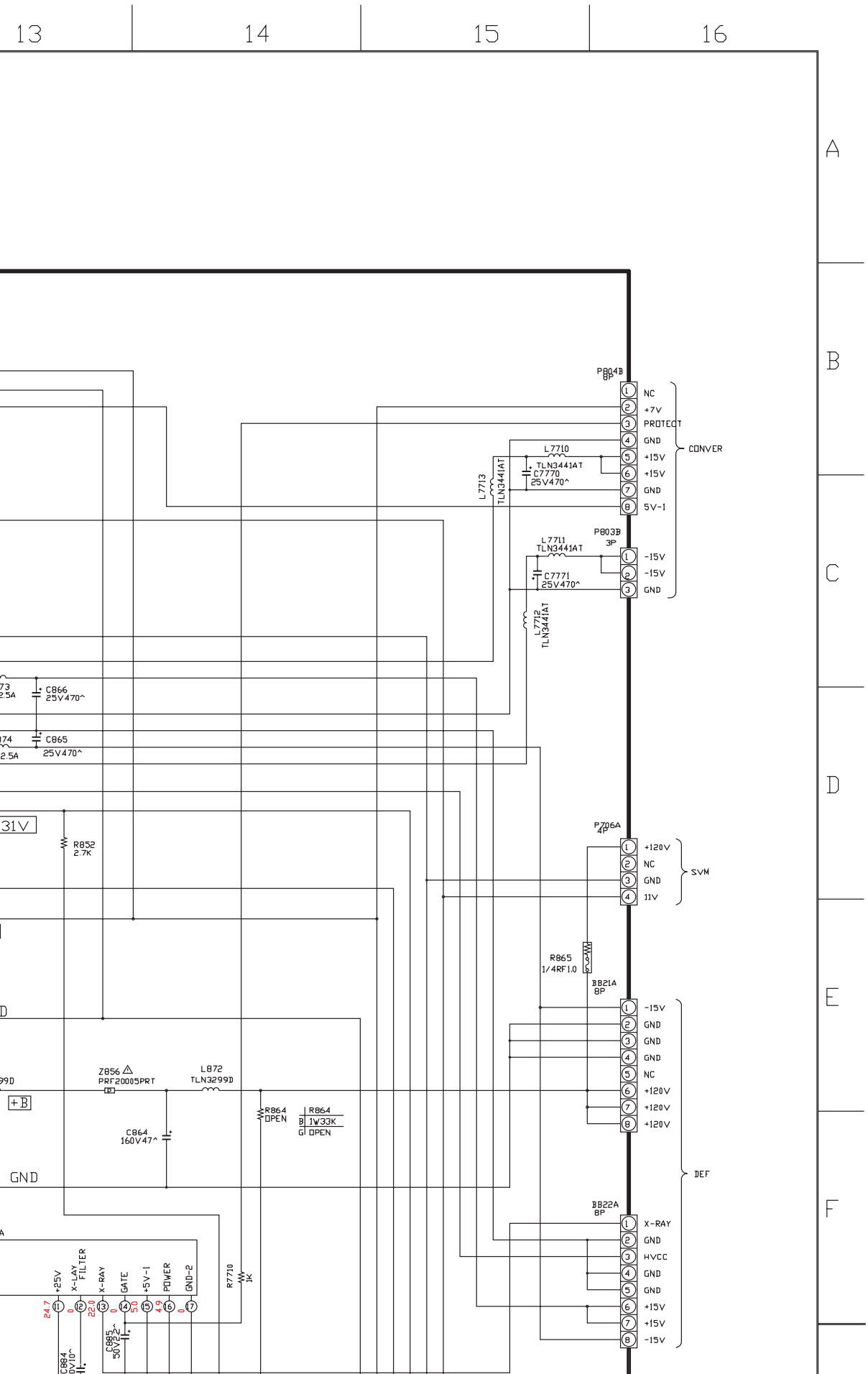

1
2
3
4
A
B
C
D
E
F
DEF
P802
3P
S801
TV-5
T805
TPW2027AZ
R804
GJ81
GJ82
T804
TPW2027AZ
R813
P888A
3P
LIVE AREA
P801
BROWN
BLUE
P800
2P
F801
T3.15A/250V
C801
AC250V0.22^
DB16
TNR15G471K
C805
AC250V0.22^
T801
TRF3164G
TRF3164AM
TO SIGNAL
P805B
1P
BROWN
C8130
AC250V0.1^
BLUE
P888B
3P
T8050
TRF3192
P883A
3P
P883B
3P

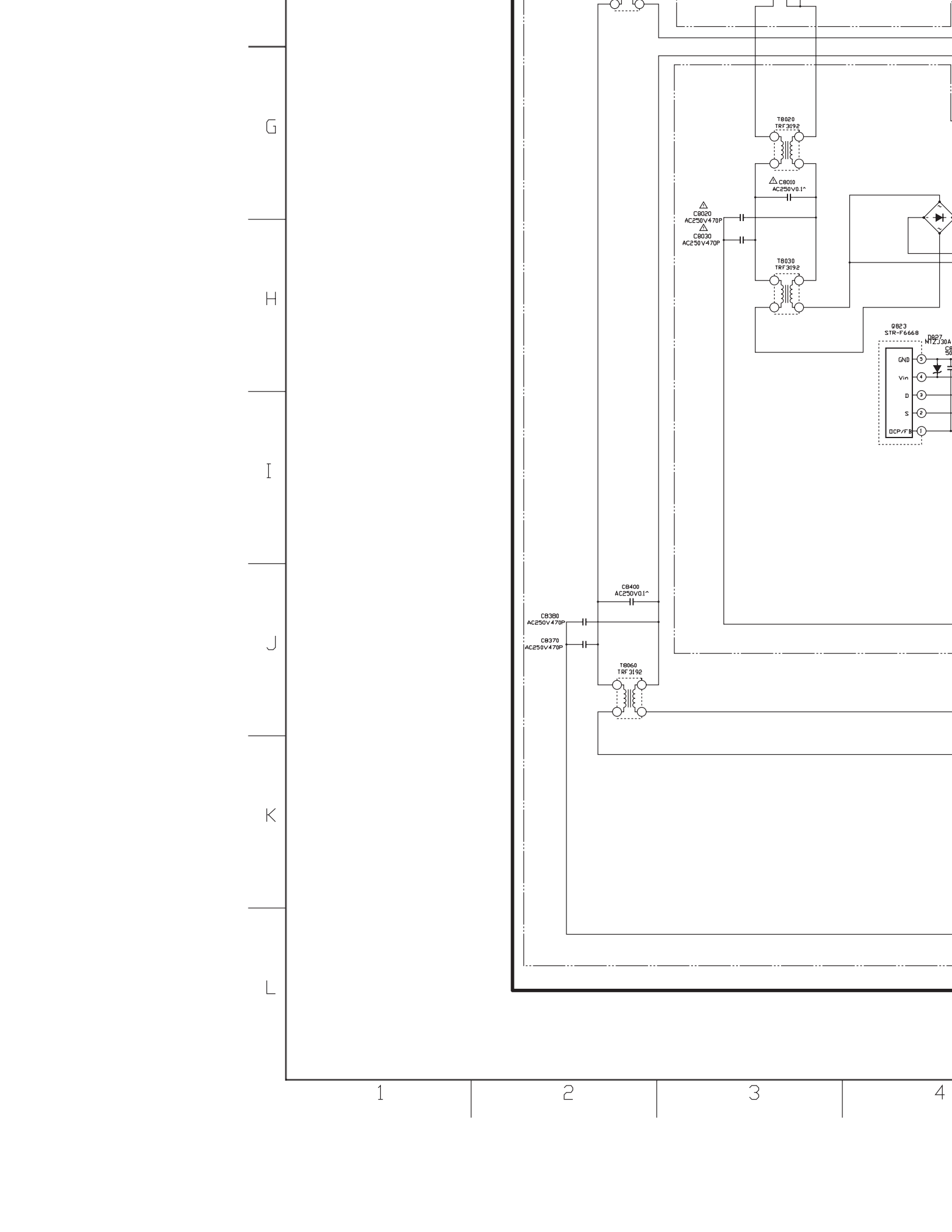

4
5
6
7
8
U908 POWER
PB9487□
G=A
B=B
SIGNAL
RESET
POWER
5V-1
GND
GND
EPG-POWER
P801A
3P
P840B
7P
C831
50V22^
C805
AC250V0.22^
R819 1/2R2.2M
C803
AC250V2200P
C802
AC250V2200P
C804
AC250V3300P
LIVE
Q801
STR-Z4369
VIN
GND
156.7
0
L803
TEM2011
D805 MTZJ9.1A
R818 OPEN
D806 MTZJ27C
C830
R814
1/2R820
7V
R823
1R82
D821
MTZJ6.2C
Q821
RN1206
R822
100K
Q824
2PC1815Y
C832
50V2.2^
D819
1N4148
SR81
DLS5DI-DXM)
R820
2W1R
R821
5W4.7
D802
LN65860
Z860
PRF4000SPRT
C810
400V560^
(24086935)
SR80
DLS5DI-D(M)
D804
MTZJ6.2C
Q811
RN1206
Q812
2PC1815Y
R803
68K
D814
MTZJ5.6B
D891
1N4148
T803
TPW1565AZ
D892
MTZJ27A
Q810
PQ05RR11
5V-1
IN
5V
RESET
GND
5.0
C808
16V470^
L893
TRF4220AT
D801
S1WBA20
C807
25V2200^
0
3
D817
1N4148
D893
MTZJ5.1B
D818
1N4148
R801
47K
C809
M1^
SR810
DLS5DI-D(M)
+5V-1
Q830
RN1206
R830
68K
D831
MTZJ5.6B
Q831
2PC1815Y

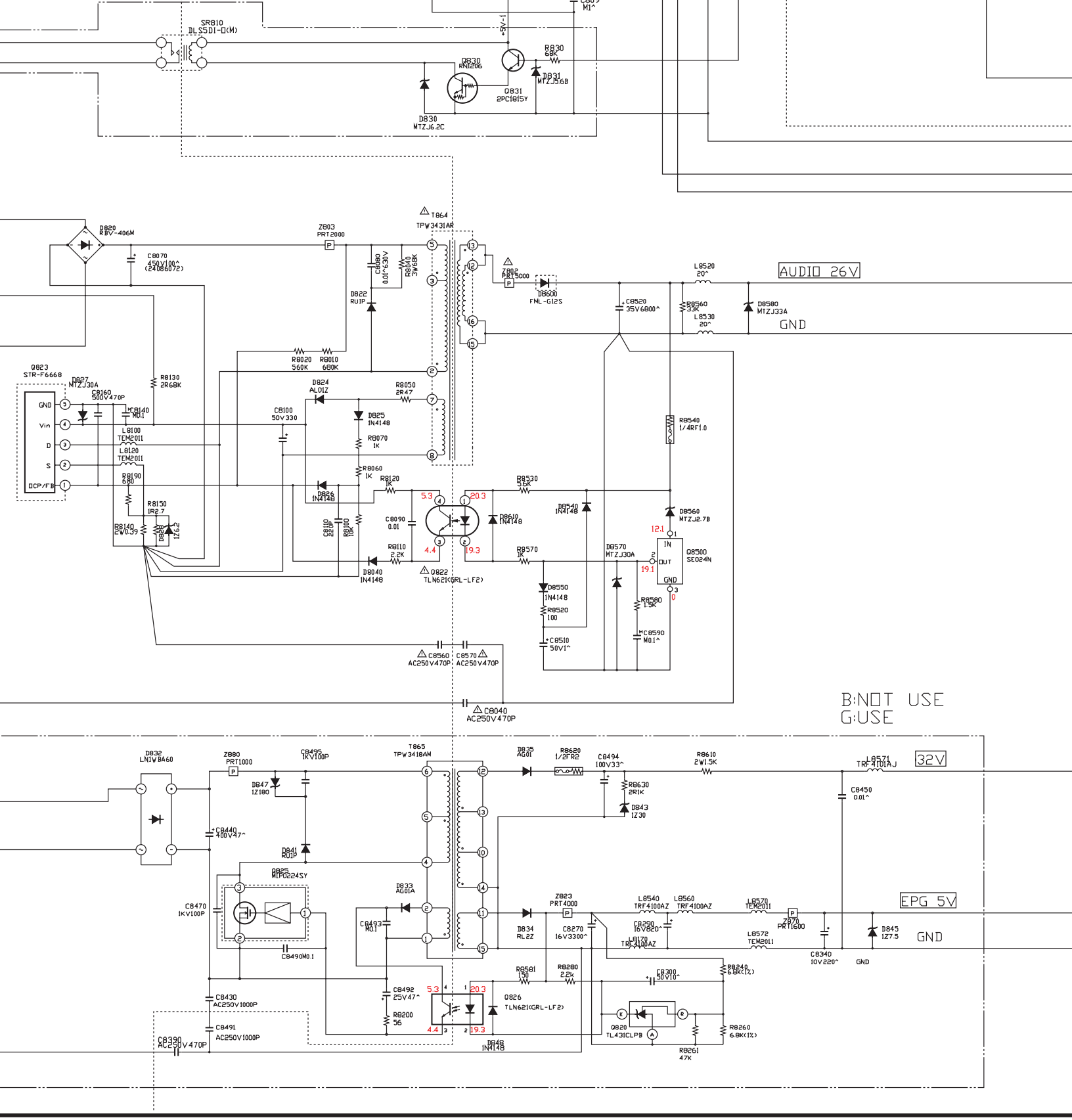

22 23
1
5^s
50V
2
5^s
50V
Q801
14
1
0
T862
6 7
2
5^s BWL
1 5 V DC
2 5 V DC
3 50 mV AC
4 50 mV AC
1 AC 0V

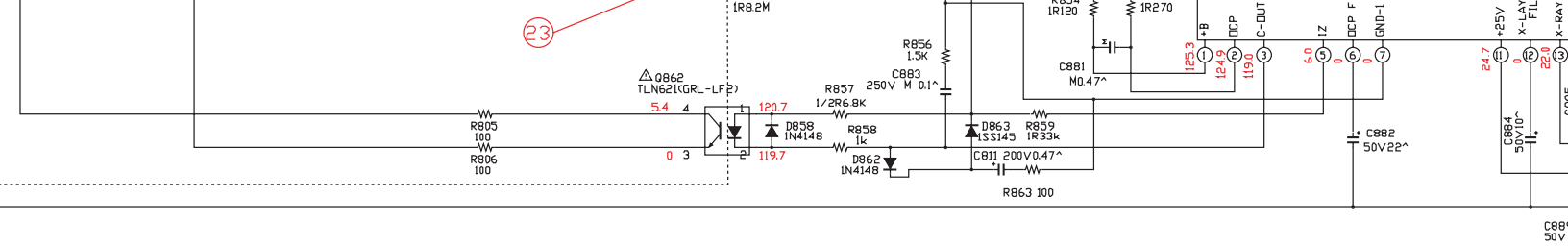
LIVE AREA

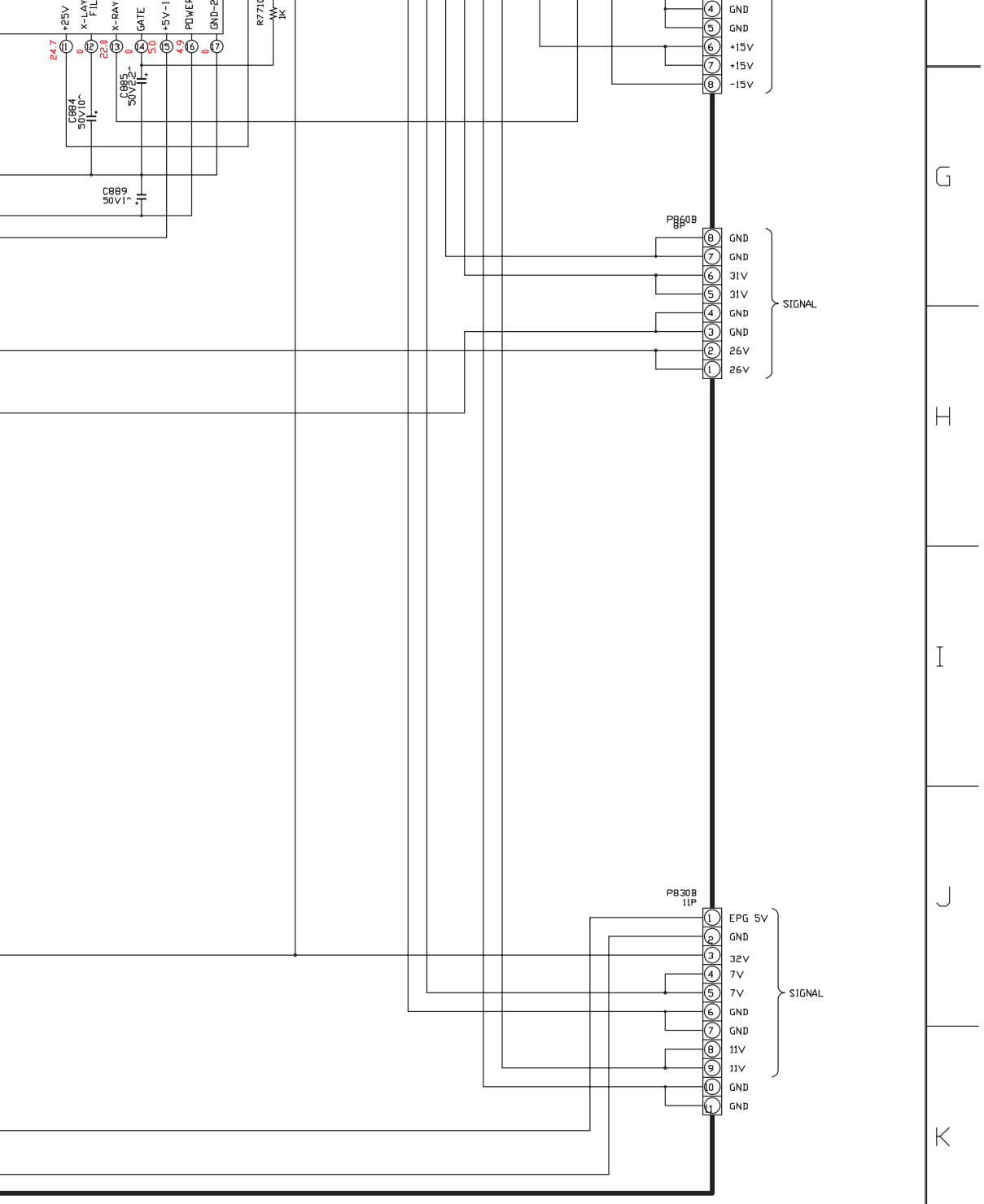

VIN GND CONT CSS CD DT VCC DRIVCC OC RC COM OUT VB
156.7 0 2.3 5.8 5.9 3.6 0.3 17.8 7.7 0.8 0 78.3 85.4
D805 MTZJ9.1A
R818 OPEN
D806 MTZJ27C
C830 1^
C814 200V2.2^
D807 OPEN
D808 OPEN
R807 27K R802 1K
C815 M0.47^
C816 50V2.2^
D809 MTZJ33A
C817 M0.22^
D810 MTZJ27C
C818 OPEN
C819 500V1000P
R870 10
R808 1/2R47
R809 1/2R68
D811 AG01A
C820 M0.22^
D812 MTZJ9.1C
L804 TEM2011
R814 1/2R820
C823 2KV 470
T862 TPW3450AS
C821 2KV 680
C822 2KV 820
R816 3R33K
D813 AL01Z
R810 2R68
C829 50V100^
C825 M2200
R812 1/2R39
R811 1/2R120
C826 2KV 220
C828 630V0.068^
R861 1R8.2M
Q862 TLN621(GRL-LF2)
R805 100
R857 1/2R6.8K
D838 1N4148
R858 1k
R856 1.5K
C883 250V M 0.1^
D863 1SS145
R859 1R33k
C881 M0.47^
C882
L857 TEM2011
L856 TEM2011
D854 D4SBS4
C860 25V2200^
L858 TEM2011
C859 500V470P
C858 500V470P
Z858 PRF5000SPRT
D855 D4SBS6
C861 35V3300^
C863 35V3300
L873 20^2.5A
C866 25V470^
L874 20^2.5A
C865 25V470^
L859 TEM2011
Z859 PRF5000SPRT
Z853 PRF40005PRT
R851 1/4RF1.0
HVCC
L861 TEM2011
D856 D4SBL20U
L862 TRF3299D
C869 50V2200^
R862 100K
AUDIO 31V
R852 2.7K
L866 TRF3299D
GND
L863 TEM2011
Z854 PRF50005PRT
L867 20^2.5A
7V
L864 TEM2011
D859 FMB-26L
C874 B1000P
C875 25V4700^
GND
L865 TEM2011
R853 1R0.56
L870 TLN3299D
+B
L868 TEM2011
D860 D4SBL40
C880 2K270P
C879 2K270P
C876 16V330^
GND
L869 TEM2011
Z801 HIC1026A
R854 1R120
R855 1R270
+B DCP C-OUT IZ DCP FILTER GND-I +25V X-LAY FILTER X-RAY
125.3 124.9 119.0 6.0 0 0 0 24.7 0 22.0
11V
+15V
-15V
GND


13
14
15
16
A
B
C
D
E
F
P804B
8P
NC
+7V
PROTECT
GND
+15V
+15V
GND
5V-1
CONVER
L7710
TLN3441AT
C7770
25V470^
L7713
TLN3441AT
P803B
3P
L7711
TLN3441AT
-15V
-15V
GND
C7771
25V470^
L7712
TLN3441AT
C866
25V470^
C865
25V470^
31V
R852
2.7K
P706A
4P
+120V
NC
GND
11V
SVM
R865
1/4RF1.0
BB21A
8P
-15V
GND
GND
GND
NC
+120V
+120V
+120V
DEF
Z856
PRF20005PRT
L872
TLN3299D
+B
R864
OPEN
R864
B 1W33K
G OPEN
C864
160V47^
GND
BB22A
8P
X-RAY
GND
HVCC
GND
GND
+15V
+15V
-15V
+25V
X-LAY FILTER
X-RAY
GATE
+5V-1
POWER
GND-2
24.7
0
220
0
50
4.9
0
0
R7710
1K
C885
50V2.2
C884
50V10


T8020
TRF3192
C8010
AC250V0.1^
C8020
AC250V470P
C8030
AC250V470P
T8030
TRF3192
Q823
STR-F6668
D827
MTZJ30A
GND
Vin
D
S
OCP/FB
C8400
AC250V0.1^
C8380
AC250V470P
C8370
AC250V470P
T8060
TRF3192
G
H
I
J
K
L
1
2
3
4


SR810
DLS5DI-□(M)
+5V-1
Q830
KN1206
R830
68K
D831
MTZJ5.6B
Q831
2PC1815Y
D830
MTZJ6.2C
T864
TPW3431AR
D820
RBV-406M
C8070
450V100^
(2408607Z)
Z803
PRT2000
C8080
250V470
R8040
3W68K
Z802
PRT5000
D8600
FML-G12S
L8520
20^
AUDIO 26V
C8520
35V6800^
R8560
33K
L8530
20^
D8580
MTZJ33A
GND
D822
RU1P
R8020
560K
R8010
680K
Q823
STR-F6668
D827
MTZJ30A
R8130
2R68K
C8160
500V470P
C8140
M0.1
L8100
TEM2011
L8120
TEM2011
R8190
680
R8150
1R2.7
R8140
2W0.39
D828
1Z6.2
GND
Vin
D
S
OCP/FB
D824
AL01Z
R8050
2R47
C8100
50V330
D825
1N4148
R8070
1K
R8060
1K
D826
1N4148
R8120
1K
C8090
0.01
C8110
C8120
R8100
10K
R8110
2.2K
D8040
1N4148
Q822
TLN621(GRL-LF2)
5.3
20.3
4.4
19.3
R8520
5.6K
D8540
1N4148
R8610
1N4148
R8540
1/4RF1.0
D8560
MTZJ2.7B
12.1
19.1
Q8500
SE024N
IN
OUT
GND
D8570
MTZJ30A
R8570
1K
D8550
1N4148
R8520
100
C8510
50V1^
R8580
1.5K
C8590
M0.1^
C8560
AC250V470P
C8570
AC250V470P
C8040
AC250V470P
B:NOT USE
G:USE
D832
LN1WBA60
Z880
PRT1000
C8495
1KV100P
T865
TPW3418AM
D835
AG01
R8620
1/2FR2
C8494
100V33^
R8610
2W1.5K
L8571
TRF4101AJ
32V
D847
1Z18D
C8450
0.01^
R8630
2R1K
D843
1Z30
C8440
400V47^
D841
RU1P
Q825
MIP0224SY
C8470
1KV100P
C8490M0.1
D833
AG01A
C8493
M0.1
Z823
PRT4000
L8540
TRF4100AZ
L8560
TRF4100AZ
L8570
TEM2011
Z870
PRT1600
EPG 5V
D834
RL2Z
C8270
16V3300^
C8350
16V820^
L8572
TEM2011
D845
1Z7.5
GND
C8340
10V220^
GND
L8570
TRF4100AZ
R8581
150
R8280
2.2K
C8300
50V10^
R8240
6.8K(1%)
C8430
AC250V1000P
C8491
AC250V1000P
C8492
25V47^
R8200
56
5.3
20.3
4.4
19.3
Q826
TLN621(GRL-LF2)
D848
1N4148
Q820
TL431CLPB
R8260
6.8K(1%)
R8261
47K
C8390
AC250V470P


23
1R8.2M
R856
1.5K
C883
250V M 0.1^
R857
1/2R6.8K
R858
1k
D862
1N4148
D863
1SS145
R859
1R33k
C811 200V0.47^
R863 100
Q862
TLN621(GRL-LF2)
5.4
4
0
3
120.7
119.7
D858
1N4148
R805
100
R806
100
1R120
1R270
C881
M0.47^
125.3
124.9
119.0
6.0
0
0
0
+B
DCP
C-OUT
IZ
DCP F
GND-1
C882
50V22^
24.7
0
22.0
+25V
X-LAY
FIL
X-RAY
C884
50V10^



POWER
40WH08B/46WH08B
56WH08B

13 14 15 16

U904 PB9485□ 40:A
DEFLECTION 46:B
56:C

CONVER

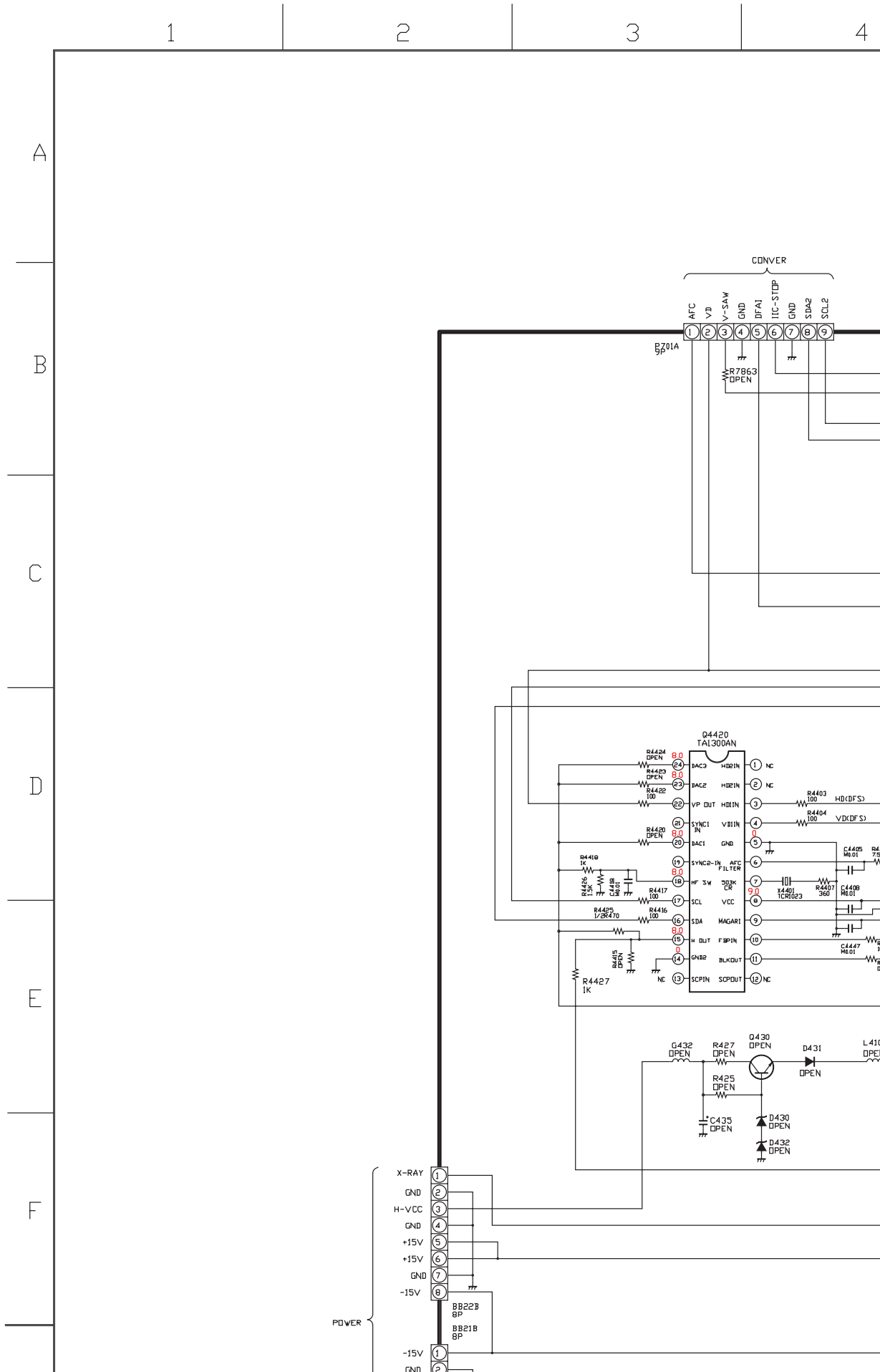
SIGNAL

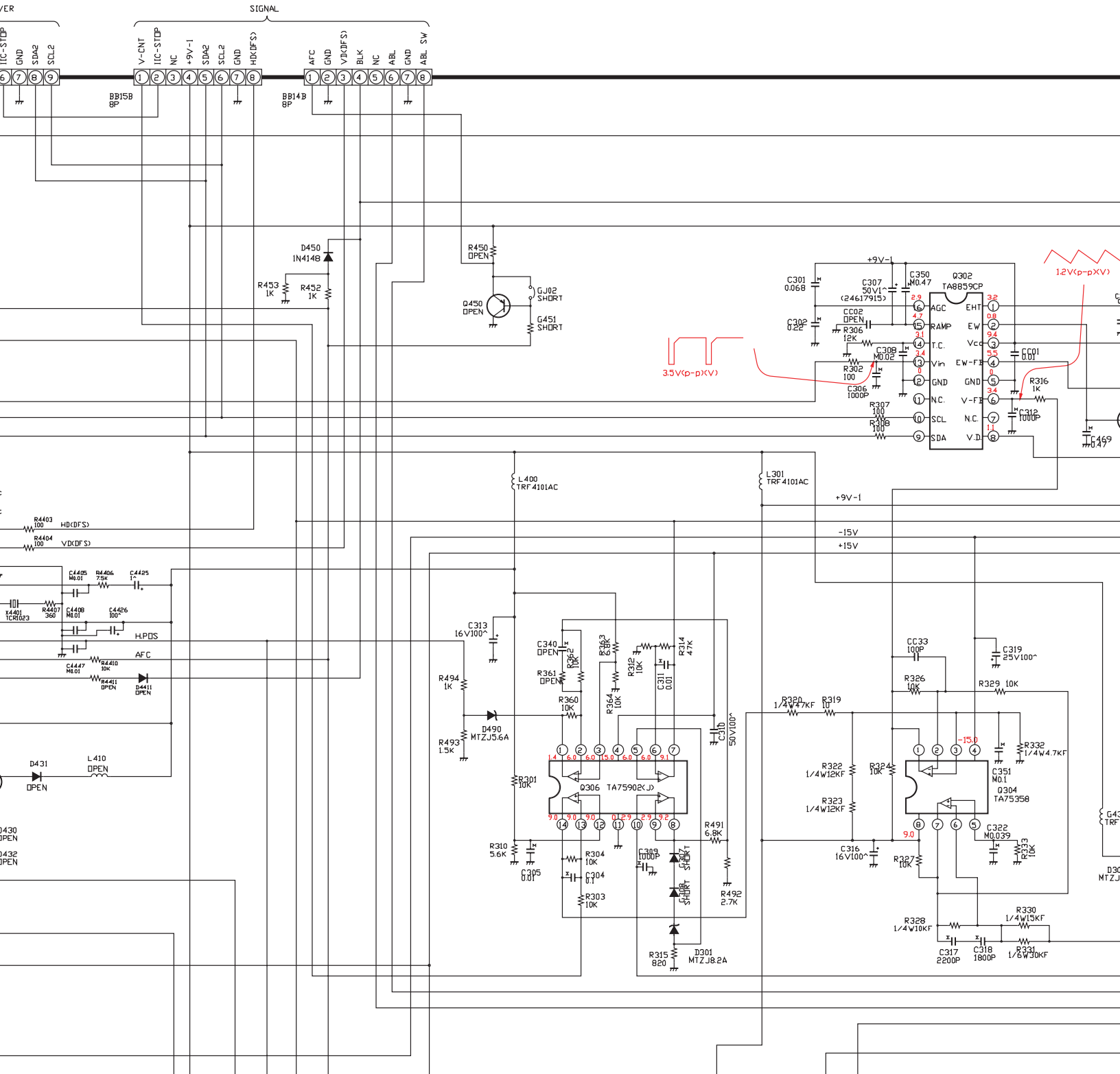
POWER

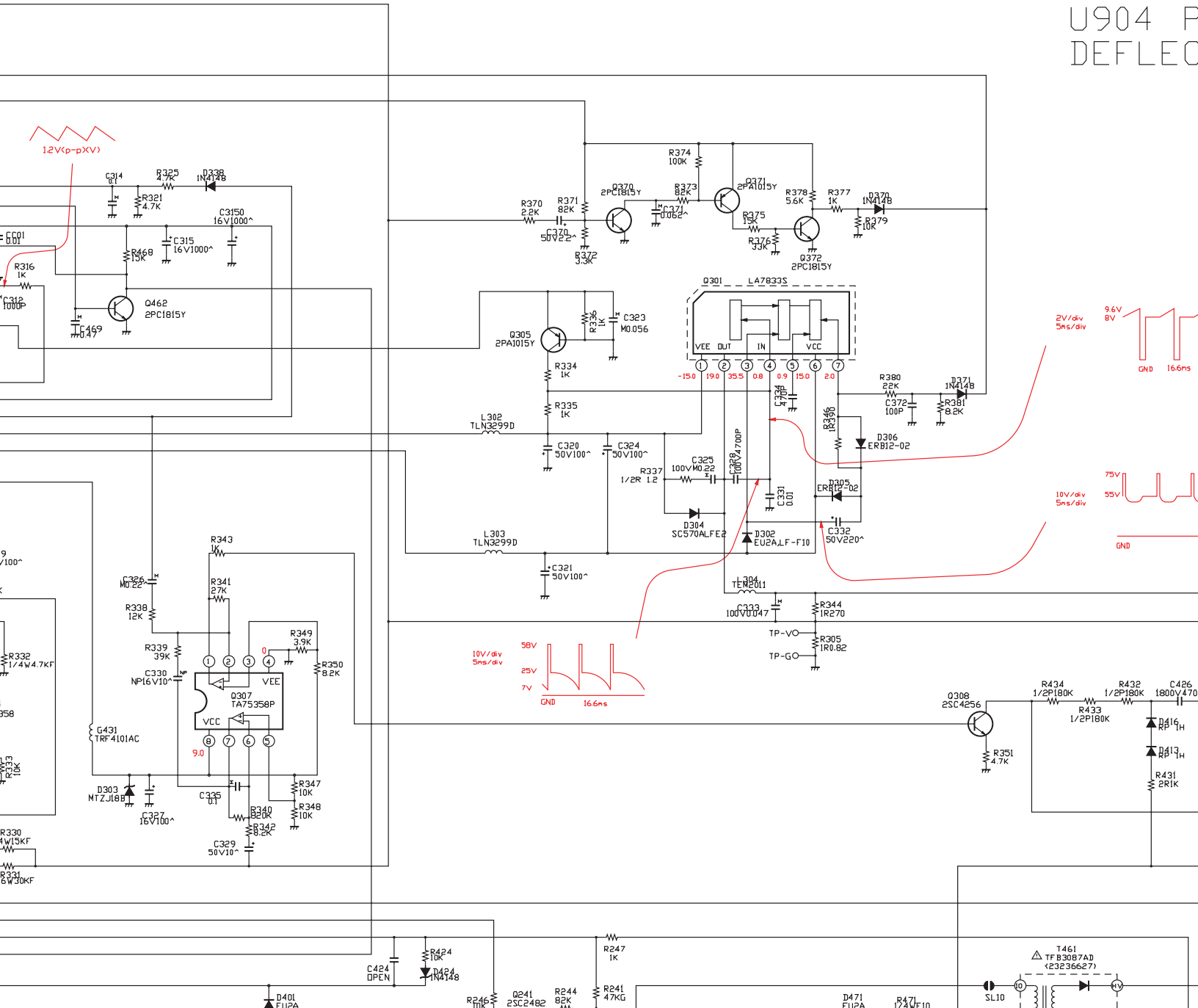
CRT DRIVE

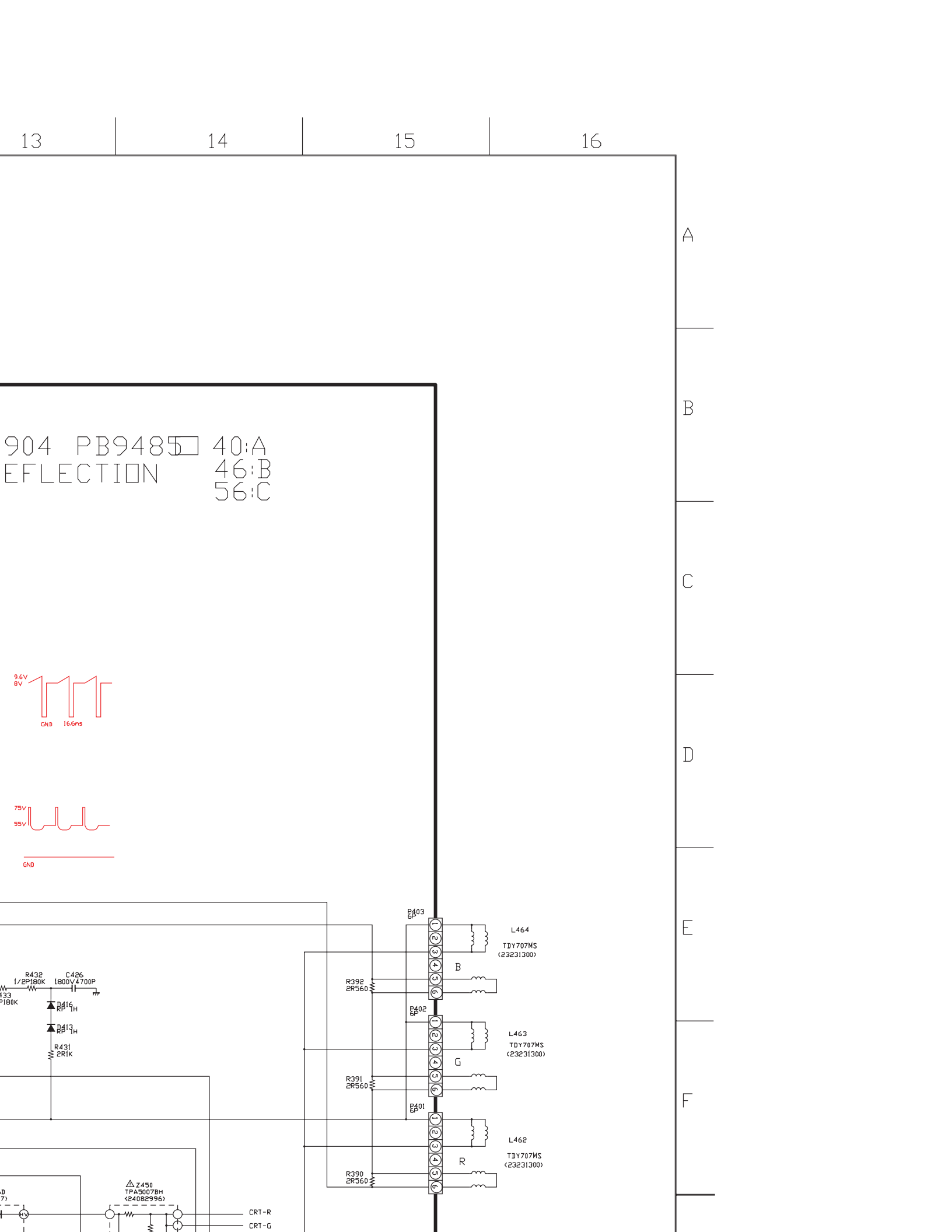
FOCUS PACK

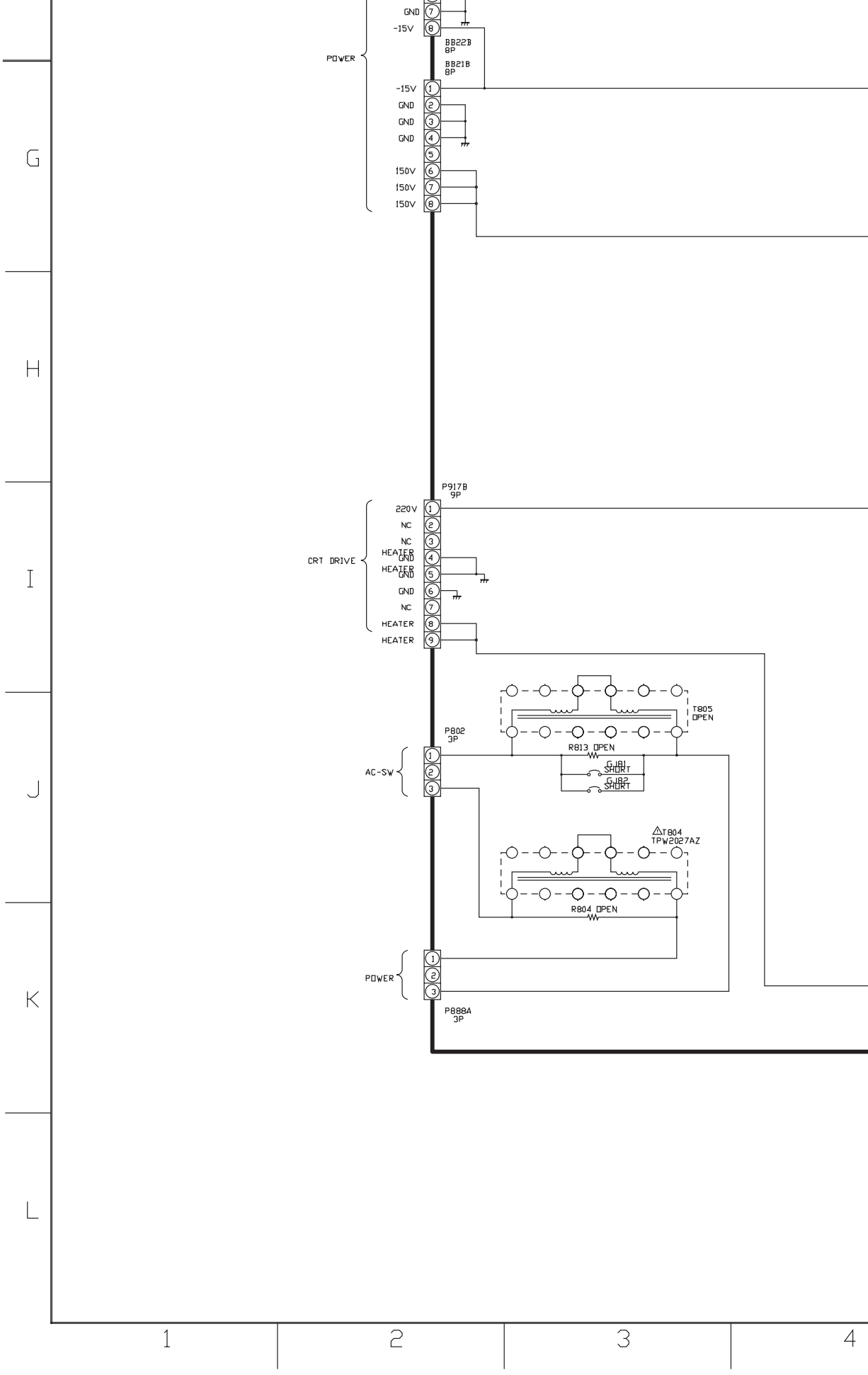
DEFLECTION
40WH08G/40WH08B
46WH08G/46WH08B
56WH08G/56WH08B

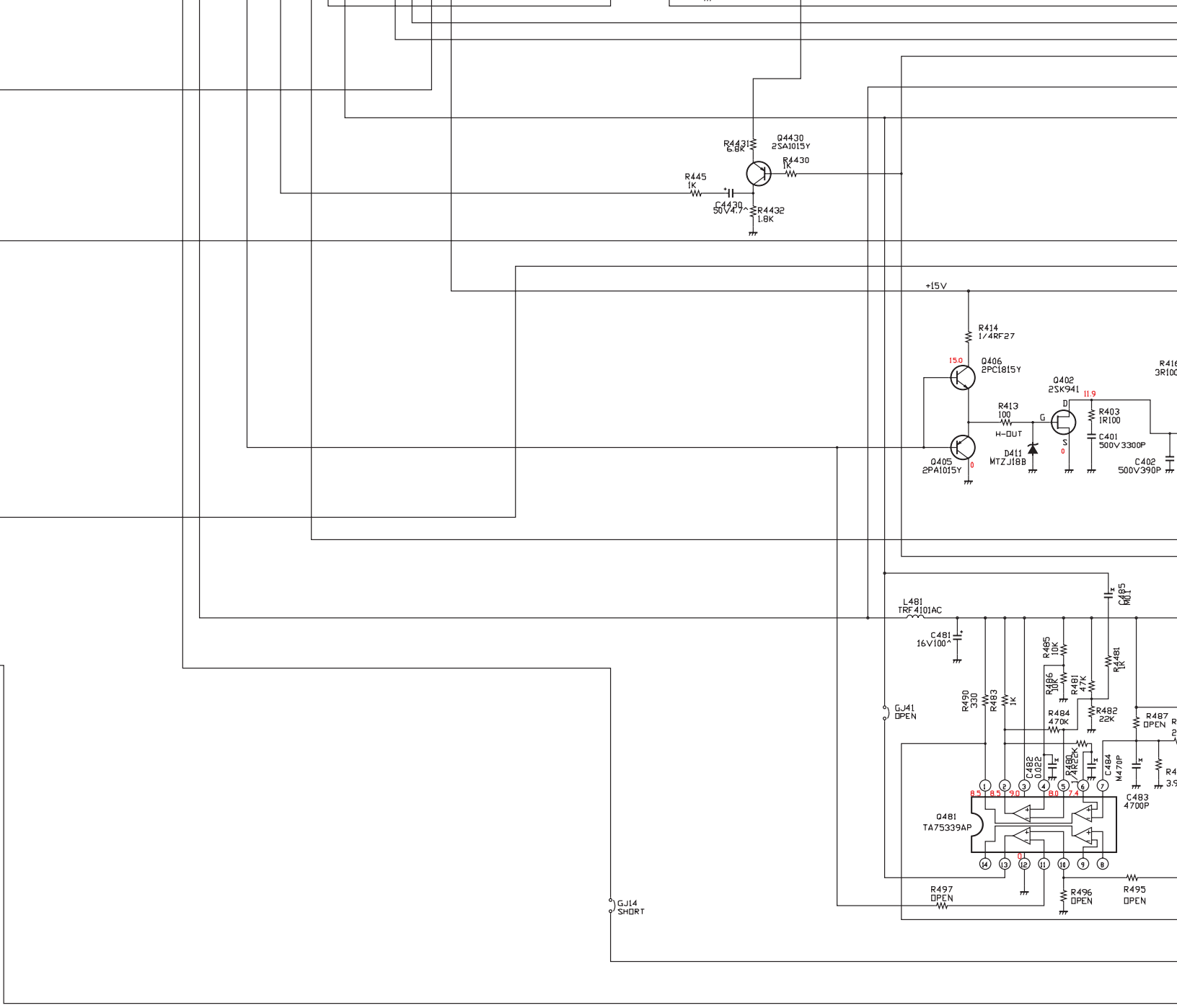

1
2
3
4
A
B
C
D
E
F
CONVER
AFC
VD
V-SAW
GND
DFA1
IIC-STOP
GND
SDA2
SCL2
BZ01A
9P
R7863
OPEN
Q4420
TA1300AN
R4424
OPEN
R4423
OPEN
R4422
100
R4420
OPEN
R4419
1K
R4426
1.5K
C4418
M0.01
R4417
100
R4425
1/2R470
R4416
100
R4415
OPEN
R4427
1K
DAC3
DAC2
VP OUT
SYNC1 IN
DAC1
SYNC2-IN
HF SW
SCL
SDA
H OUT
GND2
SCPIN
HDIN
HDIN
HDIN
VDIN
GND
AFC FILTER
503K CR
VCC
MAGARI
FBPIN
BLKOUT
SCPOUT
NC
NC
NC
R4403
100
HD(DFS)
R4404
100
VD(DFS)
C4405
M0.01
X4401
1CR1023
R4407
360
C4408
M0.01
C4447
M0.01
G432
OPEN
R427
OPEN
Q430
OPEN
D431
OPEN
R425
OPEN
C435
OPEN
D430
OPEN
D432
OPEN
POWER
X-RAY
GND
H-VCC
GND
+15V
+15V
GND
-15V
BB22B
8P
BB21B
8P
-15V
GND

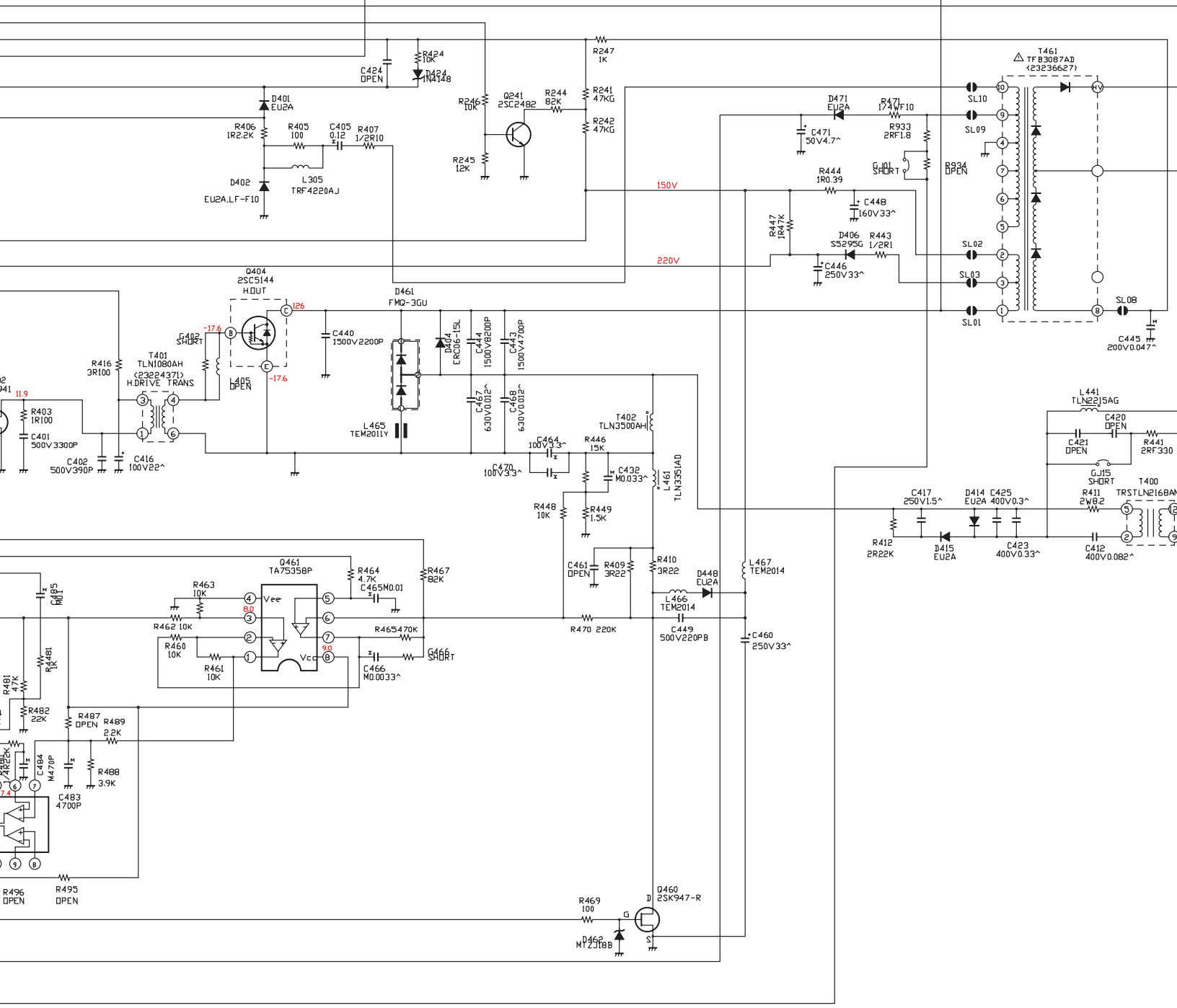

SIGNAL
IIC-STOP
GND
SDA2
SCL2
V-CNT
IIC-STOP
NC
+9V-1
SDA2
SCL2
GND
HD(DFS)
AFC
GND
VD(DFS)
BLK
NC
ABL
GND
ABL SW
BB15B 8P
BB14B 8P
D450 IN4148
R450 OPEN
R453 1K
R452 1K
Q450 OPEN
GJ02 SHORT
GJ51 SHORT
3.5V(p-p)(V)
1.2V(p-p)(V)
+9V-1
C301 0.068
C307 50V1^ (24617915)
C350 M0.47
Q302 TA8859CP
C302 0.22
CC02 OPEN
R306 12K
C308 M0.02
R302 100
C306 1000P
R307 100
R308 100
AGC
RAMP
T.C.
Vin
GND
N.C.
SCL
SDA
EHT
EW
Vcc
EW-FB
GND
V-FB
N.C.
V.D
CC01 0.01
R316 1K
C312 1000P
C469 0.47
L400 TRF4101AC
L301 TRF4101AC
+9V-1
-15V
+15V
R4403 100
R4404 100
HD(DFS)
VD(DFS)
C4405 M0.01
R4406 7.5K
C4425 1^
X4401 TCR1023
R4407 360
C4408 M0.01
C4426 100^
H.POS
AFC
C4447 M0.01
R4410 10K
R4411 OPEN
D4411 OPEN
D431
L410 OPEN
D430 OPEN
D432 OPEN
C313 16V100^
C340 OPEN
R362 10K
R363 6.8K
R312 10K
R314 47K
C311 0.01
R361 OPEN
R360 10K
R364 10K
R494 1K
D490 MTZJ5.6A
R493 1.5K
R301 10K
Q306 TA75902(J)
C310 50V100^
R491 6.8K
R492 2.7K
R310 5.6K
C305 0.01
R304 10K
C304 0.1
R303 10K
C309 1000P
D301 MTZJ8.2A
R315 820
CC33 100P
C319 25V100^
R326 10K
R329 10K
R320 1/4W47KF
R319 10
R322 1/4W12KF
R323 1/4W12KF
R324 10K
R332 1/4W4.7KF
C351 M0.1
Q304 TA75358
C322 M0.039
R333 10K
C316 16V100^
R327 10K
R328 1/4W10KF
R330 1/4W15KF
C317 2200P
C318 1800P
R331 1/6W30KF

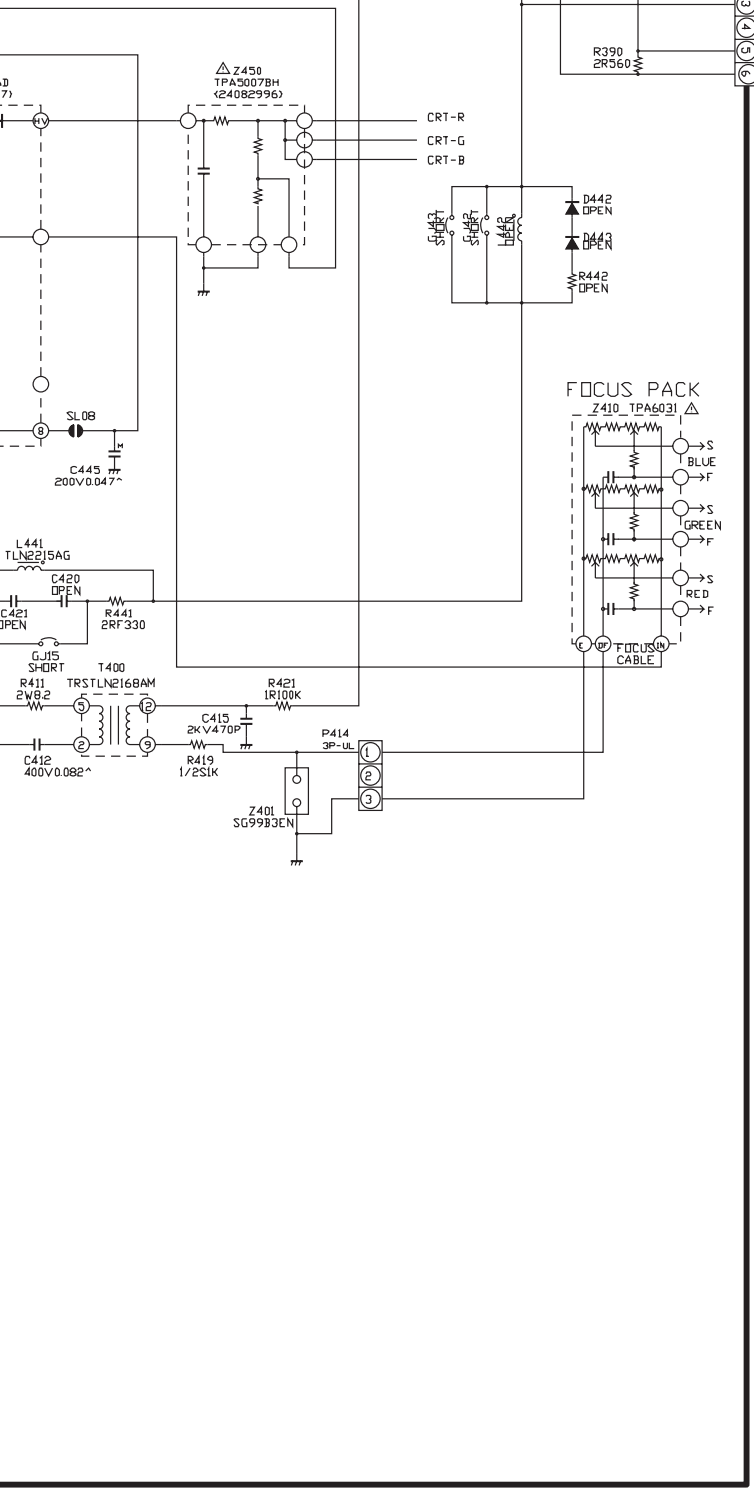

U904 P
DEFLEC
1.2V(p-pXV)
C314 0.1
R325 4.7K
D338 IN4148
R321 4.7K
C3150 16V1000^
C315 16V1000^
R468 15K
R316 1K
C312 1000P
C469 0.47
Q462 2PC1815Y
R374 100K
R370 2.2K
R371 82K
Q370 2PC1815Y
R373 82K
Q371 2PA1015Y
R378 5.6K
R377 1K
D370 IN4148
C370 50V22^
C371 0.062^
R375 15K
R376 33K
R379 10K
R372 3.3K
Q372 2PC1815Y
Q301 LA7833S
VEE OUT IN VCC
-15.0 19.0 35.5 0.8 0.9 15.0 2.0
Q305 2PA1015Y
R336 1K
C323 M0.056
R334 1K
R335 1K
L302 TLN3299D
C320 50V100^
C324 50V100^
C325 100V0.22
R337 1/2R 1.2
C329 100V4700P
C334 470P
R346 1R330
D306 ERB12-02
R380 22K
C372 100P
D371 1N4148
R381 8.2K
C331 0.01
D305 ERB12-02
D304 SC570ALFE2
D302 EU2ALF-F10
C332 50V220^
L303 TLN3299D
C321 50V100^
L304 TEN2011
C333 100V0.047
R344 1R270
TP-VO
R305 1R0.82
TP-GO
2V/div 5ms/div
9.6V 8V
GND 16.6ms
10V/div 5ms/div
75V 55V
GND
10V/div 5ms/div
58V 25V 7V
GND 16.6ms
R343 1K
C326 M0.22
R341 27K
R338 12K
R339 39K
R349 3.9K
C330 NP16V10^
Q307 TA75358P
VEE VCC
R350 8.2K
G431 TRF4101AC
9.0
D303 MTZJ18B
C327 16V100^
C335 0.1
R347 10K
R340 820K
R348 10K
R342 8.2K
C329 50V10^
R332 1/4W4.7KF
R330 1/4W15KF
R331 6W30KF
Q308 2SC4256
R434 1/2P180K
R432 1/2P180K
C426 1800V470
R433 1/2P180K
D416 RP1H
D413 RP1H
R351 4.7K
R431 2R1K
C424 OPEN
R424 10K
D424 IN4148
R247 1K
T461 TFB3087AD (23236627)
SL10
HV
D401 EU2A
R246 10K
Q241 2SC2482
R244 82K
R241 47KG
D471 EU2A
R471 1/2W5F10


13
14
15
16
A
B
C
D
E
F
904 PB9485 40:A
EFLECTION 46:B
56:C
9.6V
8V
GND
16.6ms
75V
55V
GND
P403
6P
L464
TDY707MS
(23231300)
B
R392
2R560
P402
6P
L463
TDY707MS
(23231300)
G
R391
2R560
P401
6P
L462
TDY707MS
(23231300)
R
R390
2R560
R432
1/2P180K
C426
1800V4700P
D416
RP 1H
D413
RP 1H
R431
2R1K
Z450
TPA5007BH
(24082996)
CRT-R
CRT-G


GND
-15V
POWER
BB22B
8P
BB21B
8P
-15V
GND
GND
GND
150V
150V
150V
P917B
9P
220V
NC
NC
HEATER
GND
HEATER
GND
GND
NC
HEATER
HEATER
CRT DRIVE
T805
OPEN
P802
3P
R813 OPEN
CJ81
SHORT
CJ82
SHORT
AC-SW
T804
TPW2027AZ
R804 OPEN
POWER
P888A
3P
G
H
I
J
K
L
1
2
3
4


R4431
6.8K
Q4430
2SA1015Y
R4430
1K
R445
1K
C4430
50V4.7
R4432
1.8K
+15V
R414
1/4RF27
15.0
Q406
2PC1815Y
Q402
2SK941
11.9
R413
100
H-OUT
D
G
S
R403
1R100
C401
500V3300P
D411
MTZJ18B
Q405
2PA1015Y
C402
500V390P
L481
TRF4101AC
C481
16V100^
R485
10K
R481
1K
R486
10K
R481
47K
R490
330
R483
1K
GJ41
OPEN
R484
470K
R480
22K
R487
OPEN
C482
0.022
R482
2K2
C484
M470P
C483
4700P
Q481
TA75339AP
R497
OPEN
R496
OPEN
R495
OPEN
GJ14
SHORT


C424 OPEN
R424 10K
D424 1N4148
R247 1K
D401 EU2A
R406 1R2.2K
R405 100
C405 0.12
R407 1/2R10
D402 EU2A,LF-F10
L305 TRF4220AJ
R246 10K
Q241 2SC2482
R244 82K
R241 47KG
R242 47KG
R245 12K
150V
220V
T461 TFB3087AD (23236627)
D471 EU2A
R471 1/4WF10
C471 50V4.7^
R933 2RF1.8
G401 SHORT
R934 OPEN
R444 1R0.39
C448 160V33^
R447 1R47K
D406 S5295G
R443 1/2R1
C446 250V33^
SL10
SL09
SL02
SL03
SL01
SL08
C445 200V0.047^
Q404 2SC5144 H.OUT
D461 FMQ-3GU
G402 SHORT
C440 1500V2200P
D404 ERC06-15L
C444 1500V8200P
C443 1500V4700P
R416 3R100
T401 TLN1080AH (23224371) H.DRIVE TRANS
L405 OPEN
R403 1R100
C401 500V3300P
C402 500V390P
C416 100V22^
C467 630V0.012^
C468 630V0.012^
L465 TEM2011Y
T402 TLN3500AH
C464 100V3.3^
C470 100V3.3^
R446 15K
C432 M0.033^
L461 TLN3351AD
R448 10K
R449 1.5K
L441 TLN2215AG
C420 OPEN
C421 OPEN
R441 2RF330
G415 SHORT
T400 TRSTLN2168AN
C417 250V1.5^
D414 EU2A
C425 400V0.3^
R411 2W8.2
R412 2R22K
D415 EU2A
C423 400V0.33^
C412 400V0.082^
Q461 TA75358P
R463 10K
R464 4.7K
C465 M0.01
R467 82K
R462 10K
R460 10K
R461 10K
R465 470K
C466 M0.0033^
G466 SHORT
C461 OPEN
R409 3R22
R410 3R22
D448 EU2A
L467 TEM2014
L466 TEM2014
C449 500V220PB
C460 250V33^
R470 220K
R485 M01
R481 47K
R482 22K
R487 OPEN
R489 2.2K
R488 3.9K
C484 M470P
C483 4700P
R496 OPEN
R495 OPEN
R469 100
Q460 2SK947-R
D462 MTZJ18B



DEFLECTION

40WH08G/40WH08B
46WH08G/46WH08B
56WH08G/56WH08B

U910A BACK AV
PB9489 -1
B&G=A

WOOFER-OUT
AUDIO OUT (FIX)
DVD COMP.
E3
E2
E1
WOOFER M602 SHIELDED WIRE
TO P602A ON SIGNAL BOARD
TO FRONT
TO SIGNAL
EXT INT
SLIDE SW
EXT
INT
R-SP
L-SP
EXT SP
SURROUND SP
S-2P PHON JACK
21 PIN S-VHS
21 PIN FULL
SCART1 #8
SCART2 #8
SYNC-AV
TV-V
TV-R
TV-L
RGB GND
SGV GND
SGV
+9V-1
+5V-2
V-MUTE
A MUTE
AV-L
AV-R
AV-C
V-GND
TV-V/GND
MDN1-L
MDN1-R
SCART Ys
V OUT
L OUT
R OUT
PV10B 20P B/B PLUG
PV11B 21P B/B PLUG
TO PS12 ON SIGNAL BOARD
TO PS13 ON SIGNAL BOARD
LV03 TEM2028AH
GC03 OPEN
GC04 OPEN
LV08 TEM2030
LV20 TEM2030AY
GJ21 OPEN
GJ22 OPEN
GJ23 OPEN
GJ24 OPEN
DVD1 MM1495XD
LV43 TRF4100AF
LV42 TRF4100AF
LV09 2SC1815Y
QV10 2SC2712Y
QV06 2SA1162Y
QS01 2SC3326B
QS02 2SC3326B
QS03 2SC2712Y
QS04 2SC2712Y
QS08 2SC3326B
QS09 2SC3326B
QS06 2SC3326B
QS07 RN2404
QV01 2SC1815Y
QV02 2SC1815Y
QV03 2SC1815Y
QV04 2SC1815Y
QV05 2SC1815Y
QV07 2SC2712Y
QV08 2SC2712Y
QV09 2SC1815Y
QV10 2SC2712Y
QV11 2SC1815Y
QV12 2SC1815Y
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QV14 2SC1815Y
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QV19 2SC1815Y
QV20 2SC1815Y
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QV160 2SC1815Y
QV161 2SC1815Y
QV162 2SC1815Y
QV163 2SC1815Y
QV164 2SC1815Y
QV165 2SC1815Y
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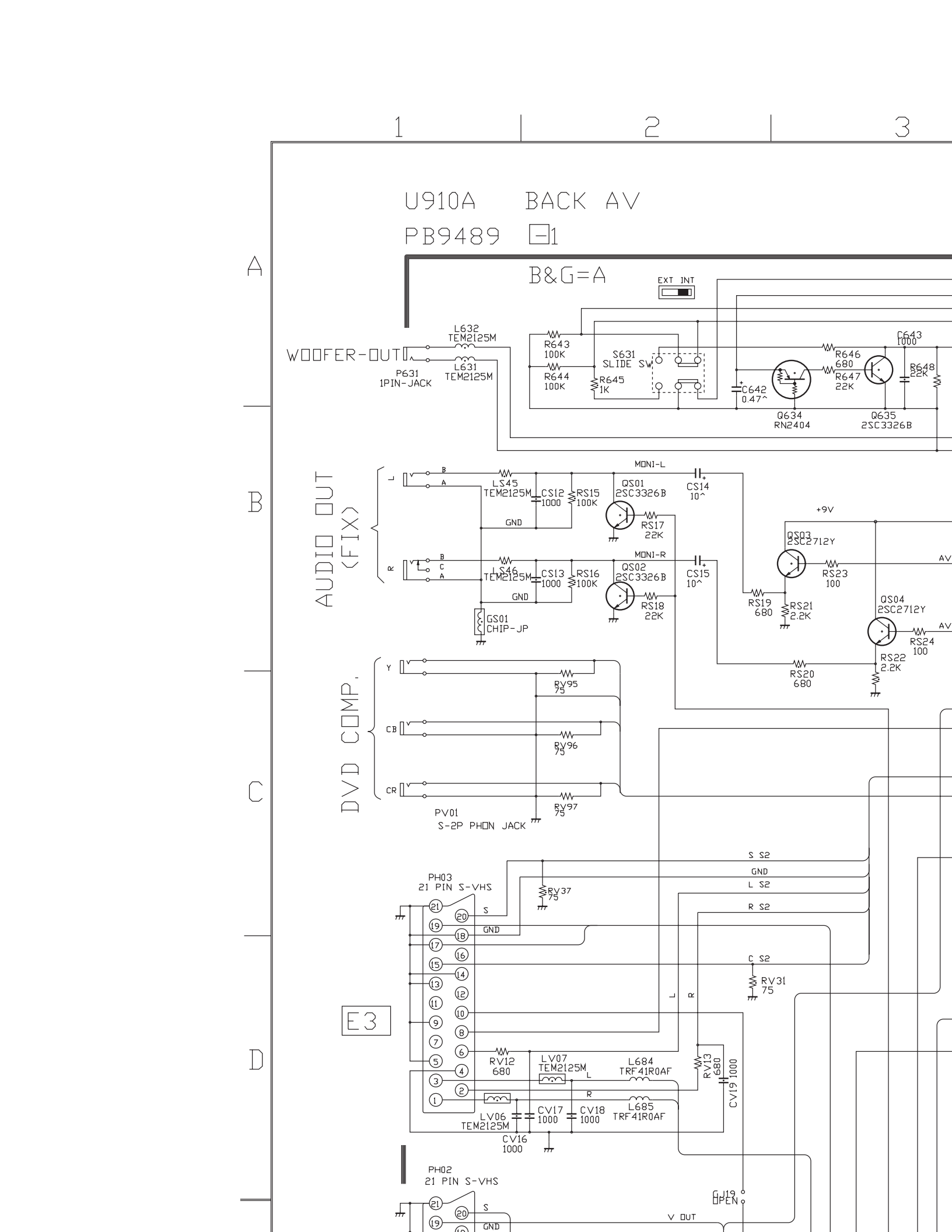
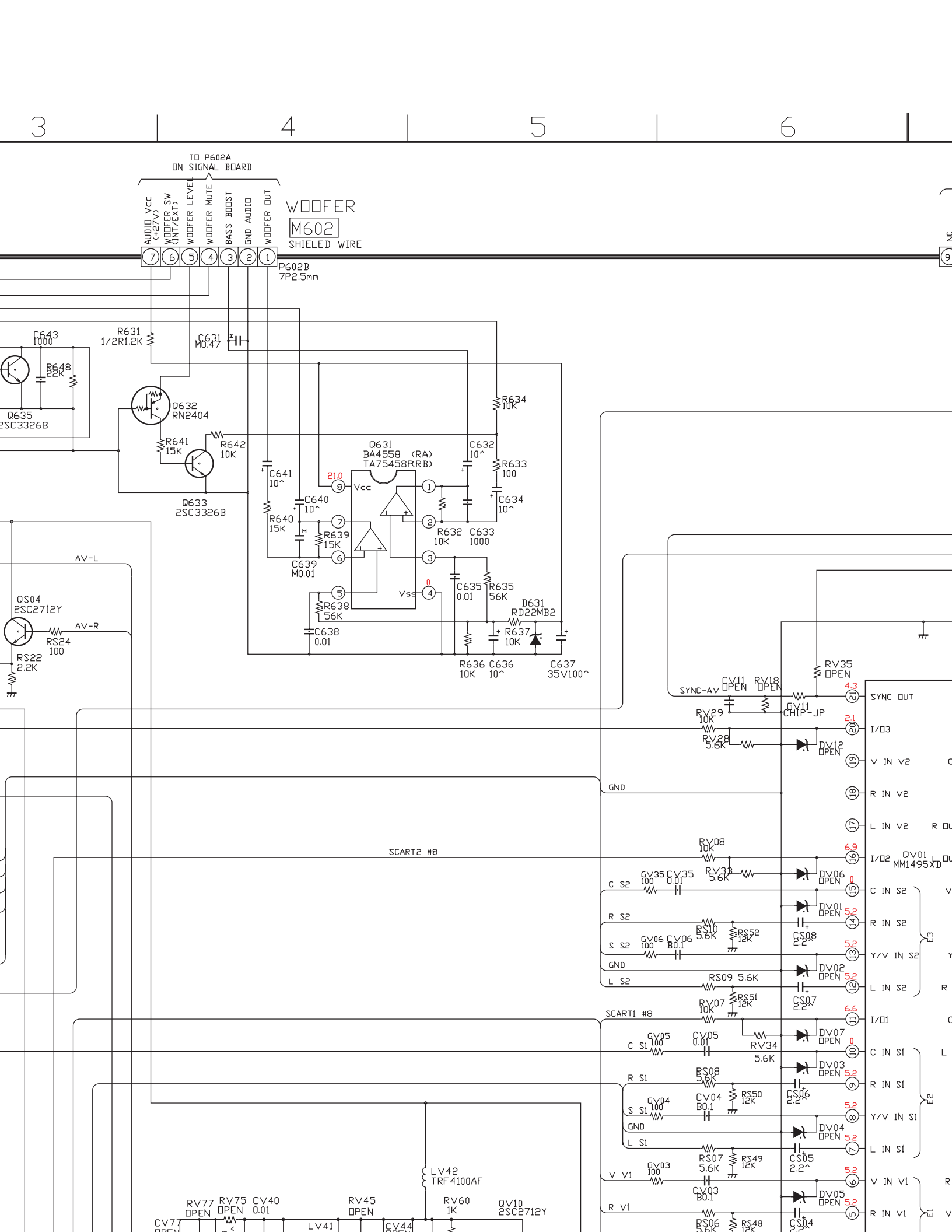
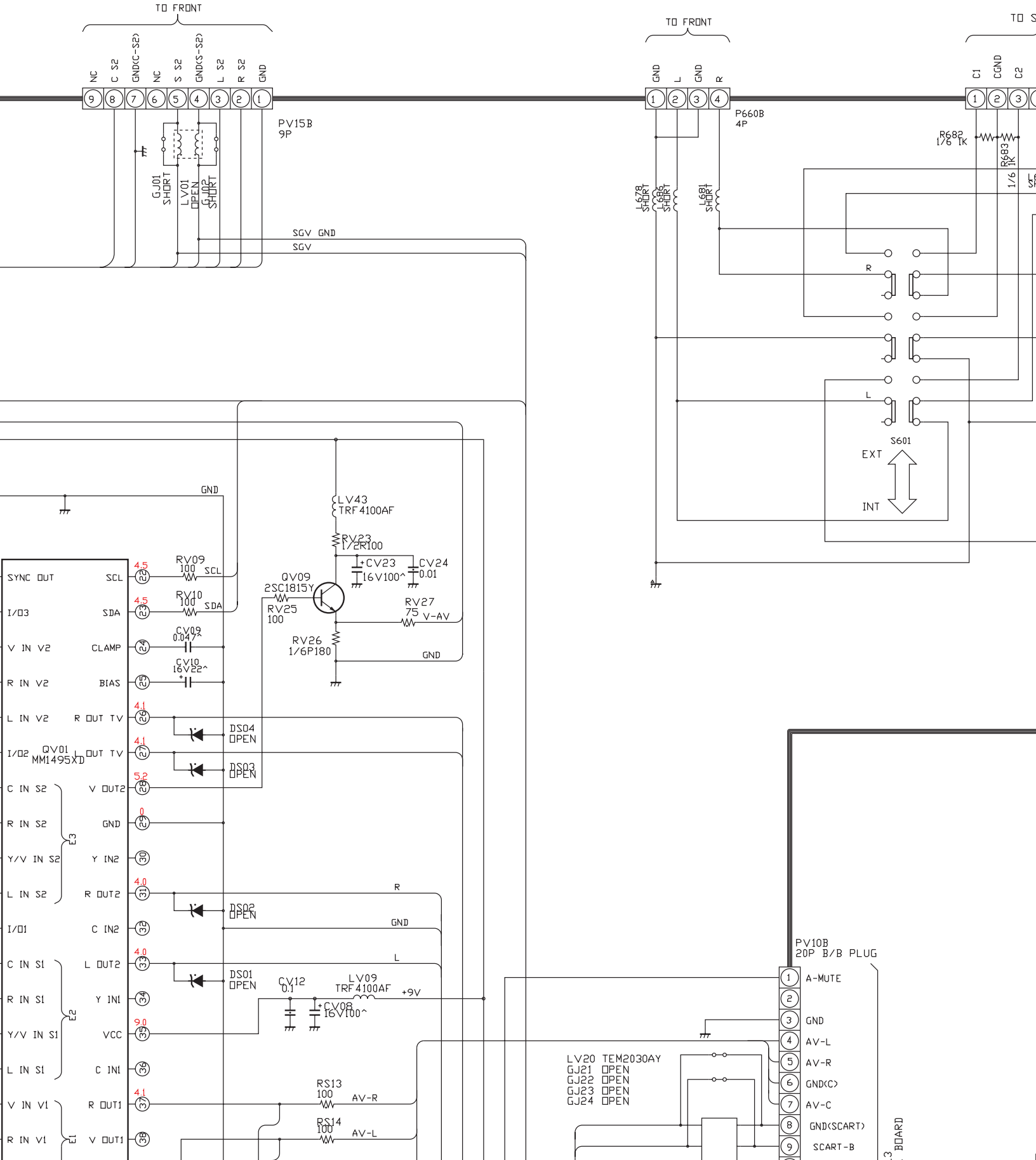
QV973 2SC1815Y
QV974 2SC1815Y
QV975 2SC1815Y
QV976 2SC1815Y
QV977 2SC1815Y
QV978 2SC1815Y
QV979 2SC1815Y
QV980 2SC1815Y
QV981 2SC1815Y
QV982 2SC1815Y
QV983 2SC1815Y
QV984 2SC1815Y
QV985 2SC1815Y
QV986 2SC1815Y
QV987 2SC1815Y
QV988 2SC1815Y
QV989 2SC1815Y
QV990 2SC1815Y
QV991 2SC1815Y
QV992 2SC1815Y
QV993 2SC1815Y
QV994 2SC1815Y
QV995 2SC1815Y
QV996 2SC1815Y
QV997 2SC1815Y
QV998 2SC1815Y
QV999 2SC1815Y
QV1000 2SC1815Y

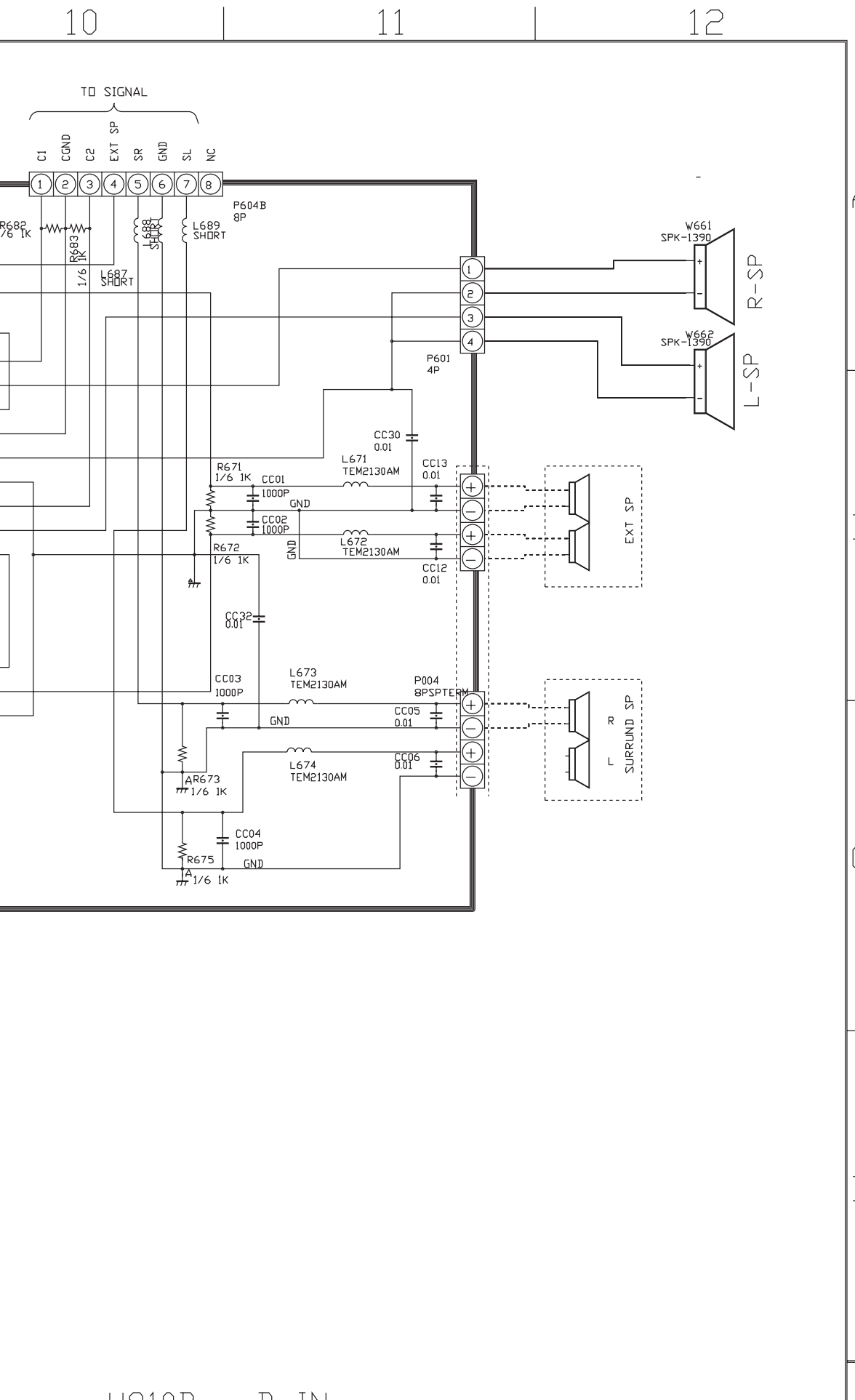
U910B D-IN
PB9489 -2
B&G=A
TO PD01A ON SIGNAL BOARD WITH MD01
TO M302 ON SIGNAL BOARD WITH M302
OPTICAL
DIGITAL-IN
AC-3 INPUT DIGITAL AMP

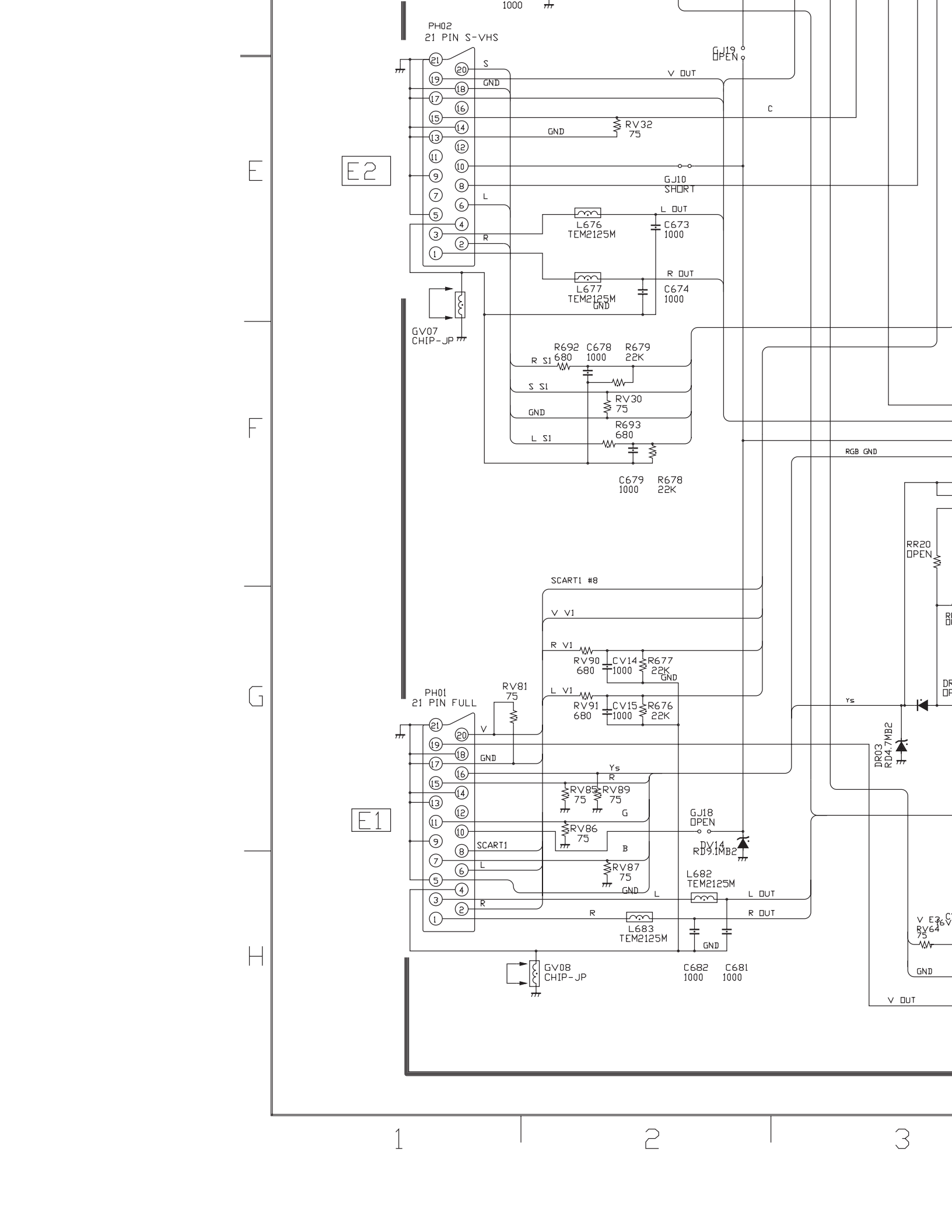
BACK AV/D-IN
40WH08B/46WH08B
56WH08B

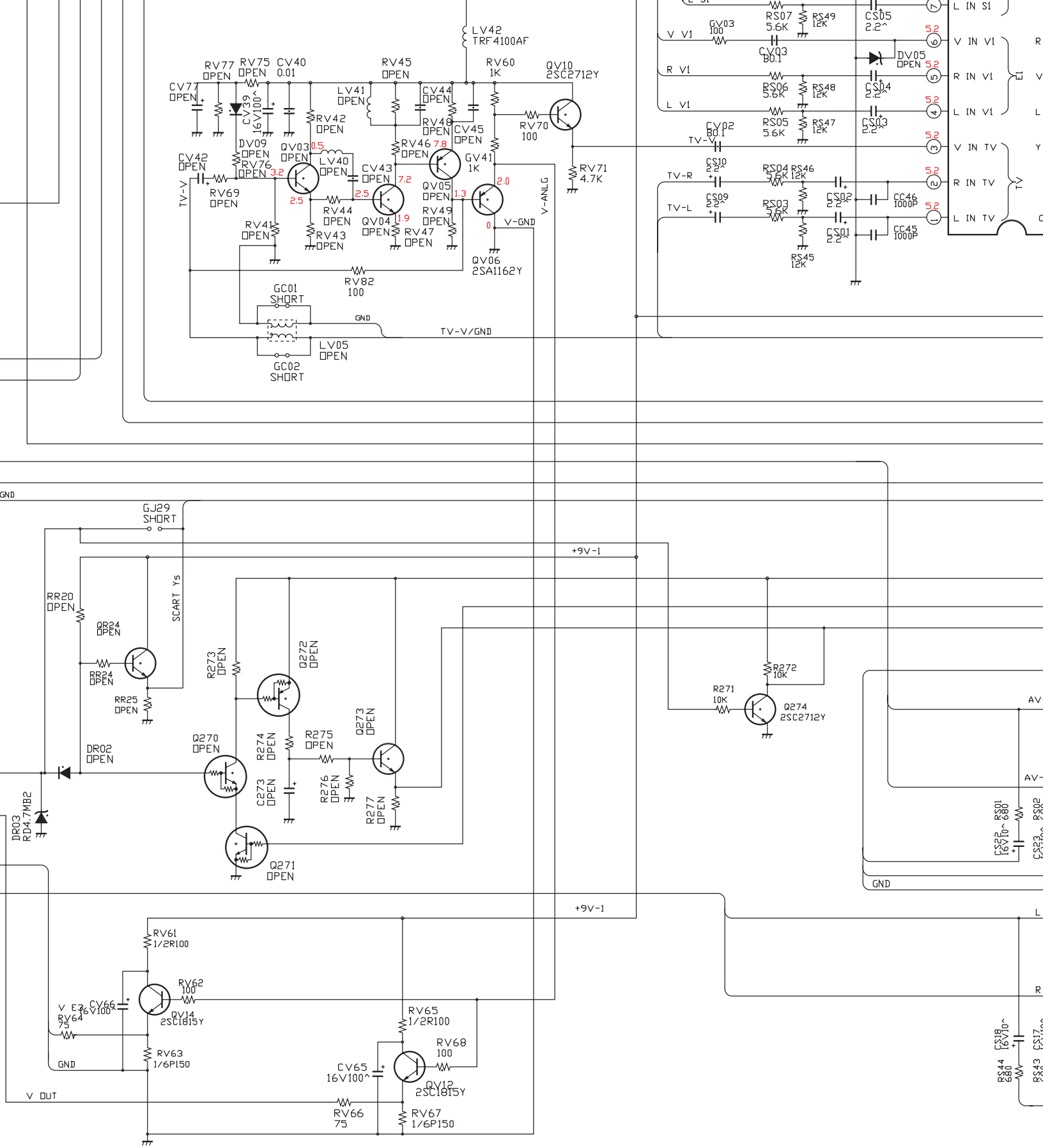

1
2
3
A
B
C
D
U910A BACK AV
PB9489 -1
B&G=A
EXT INT
WOOFER-OUT
L632 TEM2125M
L631 TEM2125M
P631 1PIN-JACK
R643 100K
R644 100K
R645 1K
S631 SLIDE SW
C642 0.47^
Q634 RN2404
R646 680
R647 22K
C643 1000
R648 22K
Q635 2SC3326B
AUDIO OUT (FIX)
L
R
LS45 TEM2125M
LS46 TEM2125M
CS12 1000
CS13 1000
RS15 100K
RS16 100K
GND
MONI-L
MONI-R
QS01 2SC3326B
QS02 2SC3326B
CS14 10^
CS15 10^
RS17 22K
RS18 22K
GS01 CHIP-JP
+9V
QS03 2SC2712Y
QS04 2SC2712Y
RS19 680
RS20 680
RS21 2.2K
RS22 2.2K
RS23 100
RS24 100
AV
DVD COMP.
Y
CB
CR
RV95 75
RV96 75
RV97 75
PV01 S-2P PHON JACK
S S2
GND
L S2
R S2
C S2
PH03 21 PIN S-VHS
RV37 75
RV31 75
E3
RV12 680
LV07 TEM2125M
LV06 TEM2125M
L684 TRF41R0AF
L685 TRF41R0AF
RV13 680
CV19 1000
CV17 1000
CV18 1000
CV16 1000
PH02 21 PIN S-VHS
CJ19 OPEN
V OUT


3
4
5
6
TO P602A
ON SIGNAL BOARD
AUDIO Vcc (+27V)
WOOFER SW (INT/EXT)
WOOFER LEVEL
WOOFER MUTE
BASS BOOST
GND AUDIO
WOOFER OUT
WOOFER
M602
SHIELED WIRE
P602B
7P2.5mm
C643 1000
R648 22K
Q635 2SC3326B
R631 1/2R1.2K
C631 M0.47
Q632 RN2404
R641 15K
R642 10K
Q633 2SC3326B
R634 10K
Q631 BA4558 (RA) TA75458R(RB)
C632 10^
R633 100
C634 10^
C641 10^
C640 10^
R640 15K
R639 15K
C639 M0.01
R632 10K
C633 1000
C635 0.01
R635 56K
R638 56K
C638 0.01
D631 RD22MB2
R637 10K
R636 10K
C636 10^
C637 35V100^
AV-L
QS04 2SC2712Y
AV-R
RS24 100
RS22 2.2K
RV35 OPEN
CV11 OPEN
RV18 OPEN
SYNC-AV
GV11 CHIP-JP
RV29 10K
RV28 5.6K
DV12 OPEN
SYNC OUT
I/O3
V IN V2
R IN V2
L IN V2
GND
SCART2 #8
RV08 10K
RV33 5.6K
DV06 OPEN
I/O2
QV01 MM1495XD
GV35 100
CV35 0.01
C S2
DV01 OPEN
C IN S2
R S2
RS10 5.6K
RS52 12K
CS08 2.2^
GV06 100
CV06 B0.1
S S2
Y/V IN S2
GND
DV02 OPEN
L S2
RS09 5.6K
RS51 12K
CS07 2.2^
L IN S2
SCART1 #8
RV07 10K
RV34 5.6K
DV07 OPEN
I/O1
GV05 100
CV05 0.01
C S1
C IN S1
DV03 OPEN
R S1
RS08 5.6K
RS50 12K
CS06 2.2^
R IN S1
GV04 100
CV04 B0.1
S S1
Y/V IN S1
GND
DV04 OPEN
L S1
RS07 5.6K
RS49 12K
CS05 2.2^
L IN S1
LV42 TRF4100AF
RV77 OPEN
RV75 OPEN
CV40 0.01
RV45 OPEN
RV60 1K
QV10 2SC2712Y
LV41
CV44
GV03 100
V V1
CV03 B0.1
DV05 OPEN
V IN V1
R V1
RS06
RS48 12K
CS04
R IN V1
E3
E2
E1

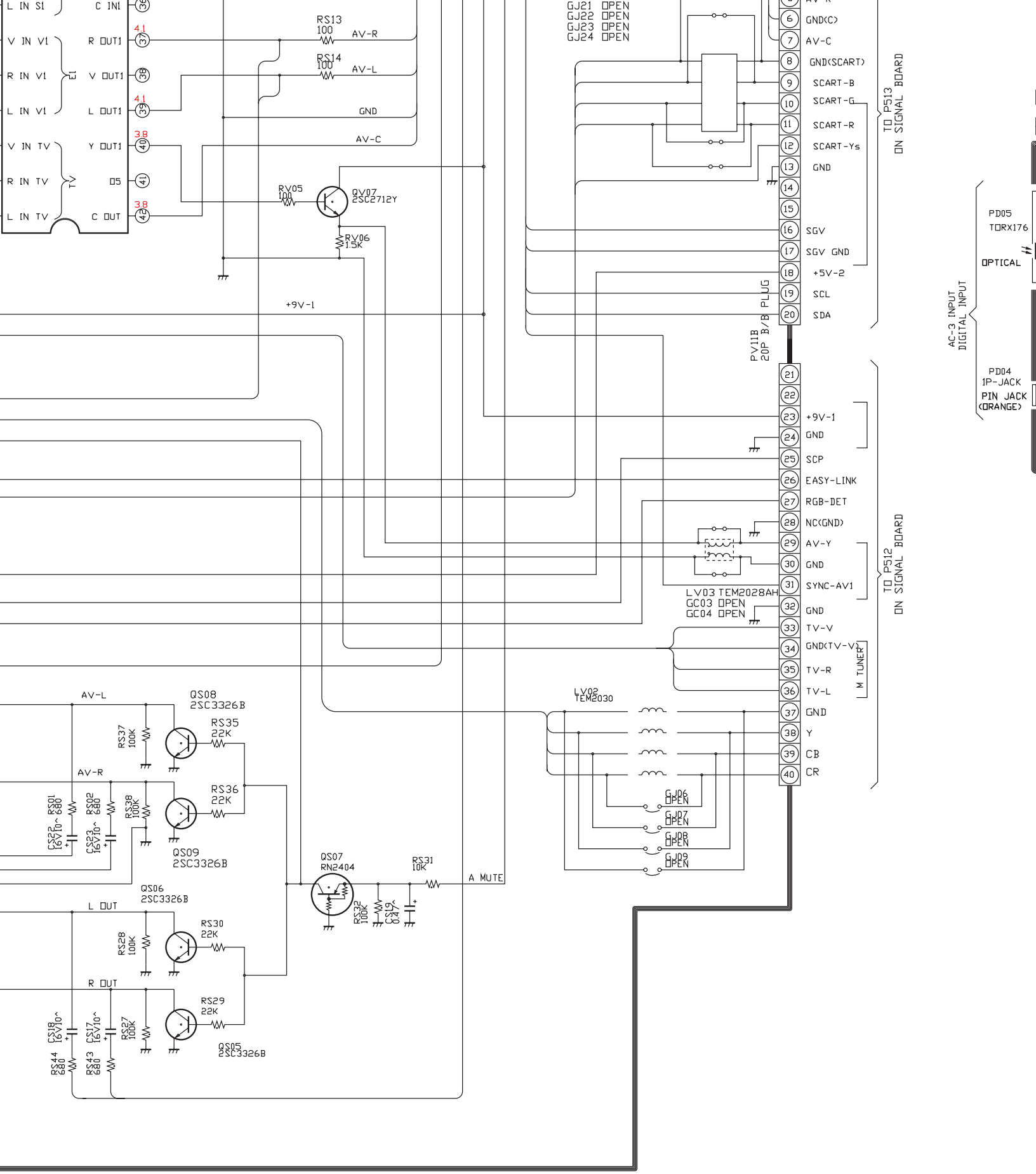

7
8
9
10
TO FRONT
NC
C S2
GND(C-S2)
NC
S S2
GND(S-S2)
L S2
R S2
GND
PV15B
9P
GJ01
SHORT
LV01
OPEN
GJ02
SHORT
SGV GND
SGV
TO FRONT
GND
L
GND
R
P660B
4P
L678
SHORT
L686
SHORT
L681
SHORT
TO S
C1
CGND
C2
R682
1/6 1K
R683
1/6 1K
R
L
S601
EXT
INT
GND
LV43
TRF4100AF
RV23
1/2R100
CV23
16V100^
CV24
0.01
QV09
2SC1815Y
RV25
100
RV27
75 V-AV
RV26
1/6P180
GND
SYNC OUT
I/O3
V IN V2
R IN V2
L IN V2
I/O2
C IN S2
R IN S2
Y/V IN S2
L IN S2
I/O1
C IN S1
R IN S1
Y/V IN S1
L IN S1
V IN V1
R IN V1
QV01
MM1495XD
SCL
SDA
CLAMP
BIAS
R OUT TV
L OUT TV
V OUT2
GND
Y IN2
R OUT2
C IN2
L OUT2
Y IN1
VCC
C IN1
R OUT1
V OUT1
E3
E2
E1
RV09
100
SCL
RV10
100
SDA
CV09
0.047^
CV10
16V22^
DS04
OPEN
DS03
OPEN
DS02
OPEN
DS01
OPEN
R
GND
L
CV12
0.1
LV09
TRF4100AF
+9V
CV08
16V100^
RS13
100
AV-R
RS14
100
AV-L
PV10B
20P B/B PLUG
A-MUTE
GND
AV-L
AV-R
GND(C)
AV-C
GND(SCART)
SCART-B
LV20 TEM2030AY
GJ21 OPEN
GJ22 OPEN
GJ23 OPEN
GJ24 OPEN

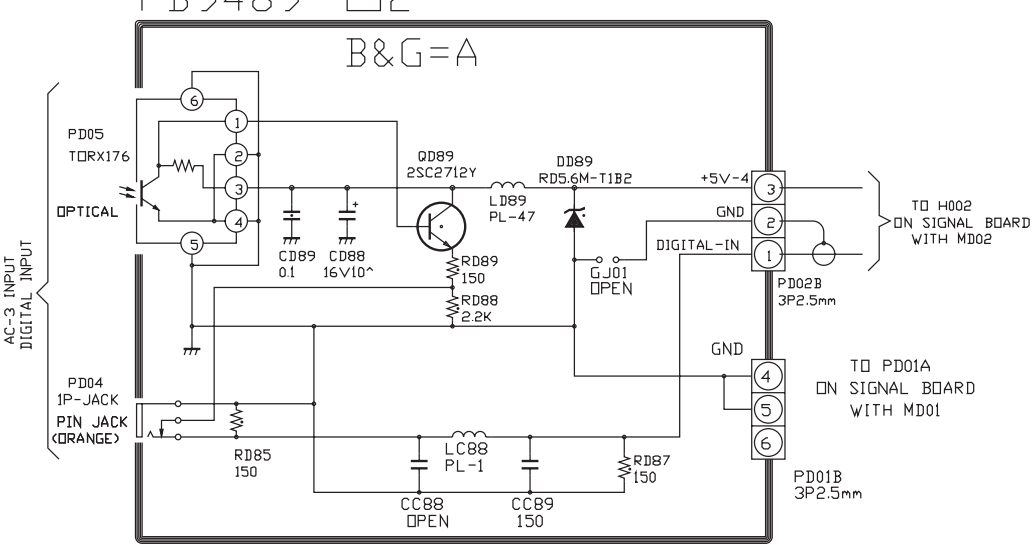

10
11
12
A
B
C
D
TO SIGNAL
C1
CGND
C2
EXT SP
SR
GND
SL
NC
P604B
8P
R682
1/6 1K
R683
1/6 1K
L687
SHORT
L688
SHORT
L689
SHORT
P601
4P
W661
SPK-1390
R-SP
W662
SPK-1390
L-SP
CC30
0.01
R671
1/6 1K
CC01
1000P
L671
TEM2130AM
CC13
0.01
GND
CC02
1000P
R672
1/6 1K
GND
L672
TEM2130AM
CC12
0.01
EXT SP
CC32
0.01
CC03
1000P
L673
TEM2130AM
P004
8PSPTERM
GND
CC05
0.01
L674
TEM2130AM
CC06
0.01
R
L
SURRUND SP
AR673
1/6 1K
CC04
1000P
R675
A
1/6 1K
GND


1000
PH02
21 PIN S-VHS
S
GND
C
RV32
75
GND
E2
GJ10
SHORT
L
L OUT
L676
TEM2125M
C673
1000
R
R OUT
L677
TEM2125M
GND
C674
1000
GV07
CHIP-JP
R692 C678 R679
680 1000 22K
R S1
S S1
RV30
75
GND
R693
680
L S1
C679 R678
1000 22K
GJ19
OPEN
V OUT
RGB GND
RR20
OPEN
SCART1 #8
V V1
R V1
RV90 CV14 R677
680 1000 22K
GND
L V1
RV91 CV15 R676
680 1000 22K
PH01
21 PIN FULL
RV81
75
V
GND
Ys
R
RV85 RV89
75 75
G
RV86
75
B
RV87
75
GND
SCART1
L
R
E1
GJ18
OPEN
DV14
RD9.1MB2
L682
TEM2125M
L OUT
L
R
R OUT
L683
TEM2125M
GND
C682 C681
1000 1000
GV08
CHIP-JP
Ys
DR03
RD4.7MB2
V E3
RV64
75
GND
V OUT
E
F
G
H
1
2
3


LV42
TRF4100AF
RV77 OPEN
RV75 OPEN
CV40 0.01
CV77 OPEN
CV39 16V100^
RV45 OPEN
RV60 1K
QV10 2SC2712Y
LV41 OPEN
CV44 OPEN
RV42 OPEN
RV40 OPEN
CV45 OPEN
RV70 100
RV71 4.7K
DV09 OPEN
RV76 OPEN
QV03 OPEN
LV40 OPEN
RV46 OPEN
GV41 1K
CV42 OPEN
RV69 OPEN
CV43 OPEN
QV05 OPEN
RV44 OPEN
QV04 OPEN
RV49 OPEN
RV47 OPEN
RV41 OPEN
RV43 OPEN
V-GND
V-ANLG
QV06 2SA1162Y
RV82 100
GC01 SHORT
GND
TV-V/GND
LV05 OPEN
GC02 SHORT
TV-V
V V1
R V1
L V1
GV03 100
CV03 B0.1
RS07 5.6K
RS49 12K
CS05 2.2^
DV05 OPEN
RS06 5.6K
RS48 12K
CS04 2.2^
RS05 5.6K
RS47 12K
CS03 2.2^
CV02 B0.1
RS04 5.6K
RS46 12K
CS10 2.2^
CS02 2.2^
CC46 1000P
RS03 5.6K
CS09 2.2^
CS01 2.2^
CC45 1000P
RS45 12K
L IN S1
V IN V1
R IN V1
L IN V1
V IN TV
R IN TV
L IN TV
J1
TV
TV-R
TV-L
GJ29 SHORT
+9V-1
SCART Ys
RR20 OPEN
QR24 OPEN
RR24 OPEN
RR25 OPEN
R273 OPEN
Q272 OPEN
R272 10K
R271 10K
Q274 2SC2712Y
Q270 OPEN
R274 OPEN
R275 OPEN
Q273 OPEN
DR02 OPEN
C273 OPEN
R276 OPEN
R277 OPEN
DR03 RD4.7MB2
Q271 OPEN
AV
AV-
CS22 16V10^
RS01 680
GND
+9V-1
RV61 1/2R100
RV62 100
V E3
CV66 16V100^
QV14 2SC1815Y
RV64 75
RV63 1/6P150
GND
RV65 1/2R100
RV68 100
CV65 16V100^
QV12 2SC1815Y
V OUT
RV66 75
RV67 1/6P150
CS18 16V10^
RS44 680
CS17
RS43

3 4 5 6

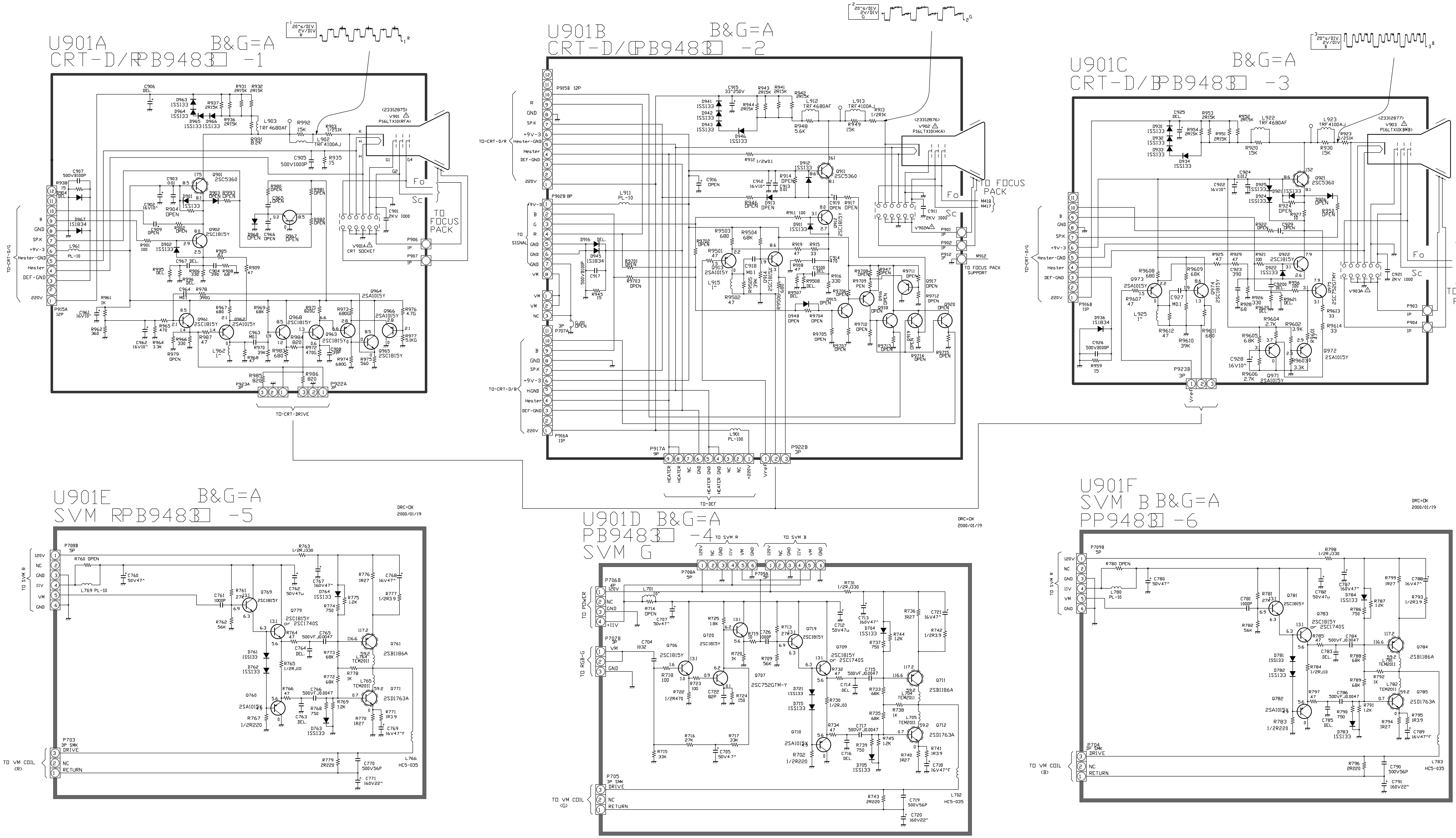

L IN S1
C IN1
V IN V1
R OUT1
R IN V1
V OUT1
L IN V1
L OUT1
E1
V IN TV
Y OUT1
R IN TV
D5
L IN TV
C OUT
TV
RS13 100 AV-R
RS14 100 AV-L
GND
AV-C
RV05 100
QV07 2SC2712Y
RV06 1.5K
+9V-1
GJ21 OPEN
GJ22 OPEN
GJ23 OPEN
GJ24 OPEN
GND(C)
AV-C
GND(SCART)
SCART-B
SCART-G
SCART-R
SCART-Ys
GND
SGV
SGV GND
+5V-2
SCL
SDA
TO P513 ON SIGNAL BOARD
PV11B 20P B/B PLUG
PD05 TORX176
OPTICAL
AC-3 INPUT DIGITAL INPUT
PD04 1P-JACK PIN JACK (ORANGE)
+9V-1
GND
SCP
EASY-LINK
RGB-DET
NC(GND)
AV-Y
GND
SYNC-AV1
LV03 TEM2028AH
GC03 OPEN
GC04 OPEN
GND
TV-V
GND(TV-V)
TV-R
TV-L
M TUNER
TO P512 ON SIGNAL BOARD
LV02 TEM2030
GND
Y
CB
CR
GJ06 OPEN
GJ07 OPEN
GJ08 OPEN
GJ09 OPEN
AV-L
QS08 2SC3326B
RS37 100K
RS35 22K
AV-R
RS36 22K
RS38 100K
RS01 680
RS02 680
CS22 16V10
CS23 16V10
QS09 2SC3326B
QS07 RN2404
RS31 10K
A MUTE
RS32 100K
CS19 0.47
QS06 2SC3326B
L OUT
RS28 100K
RS30 22K
R OUT
RS29 22K
RS27 100K
CS18 16V10
CS17 16V10
RS44 680
RS43 680
QS05 2SC3326B



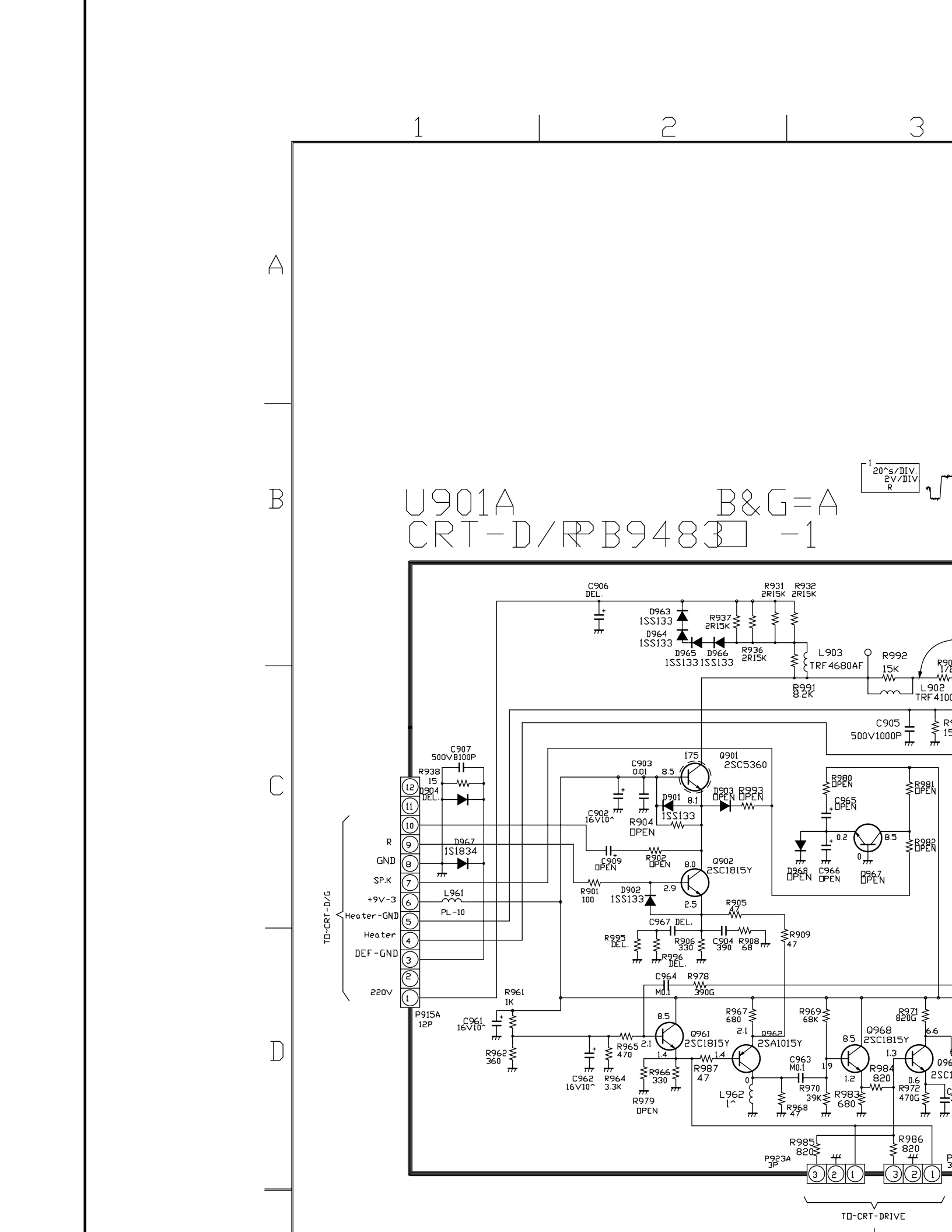
BACK AV/D-IN
40WH08B/46WH08B
56WH08B

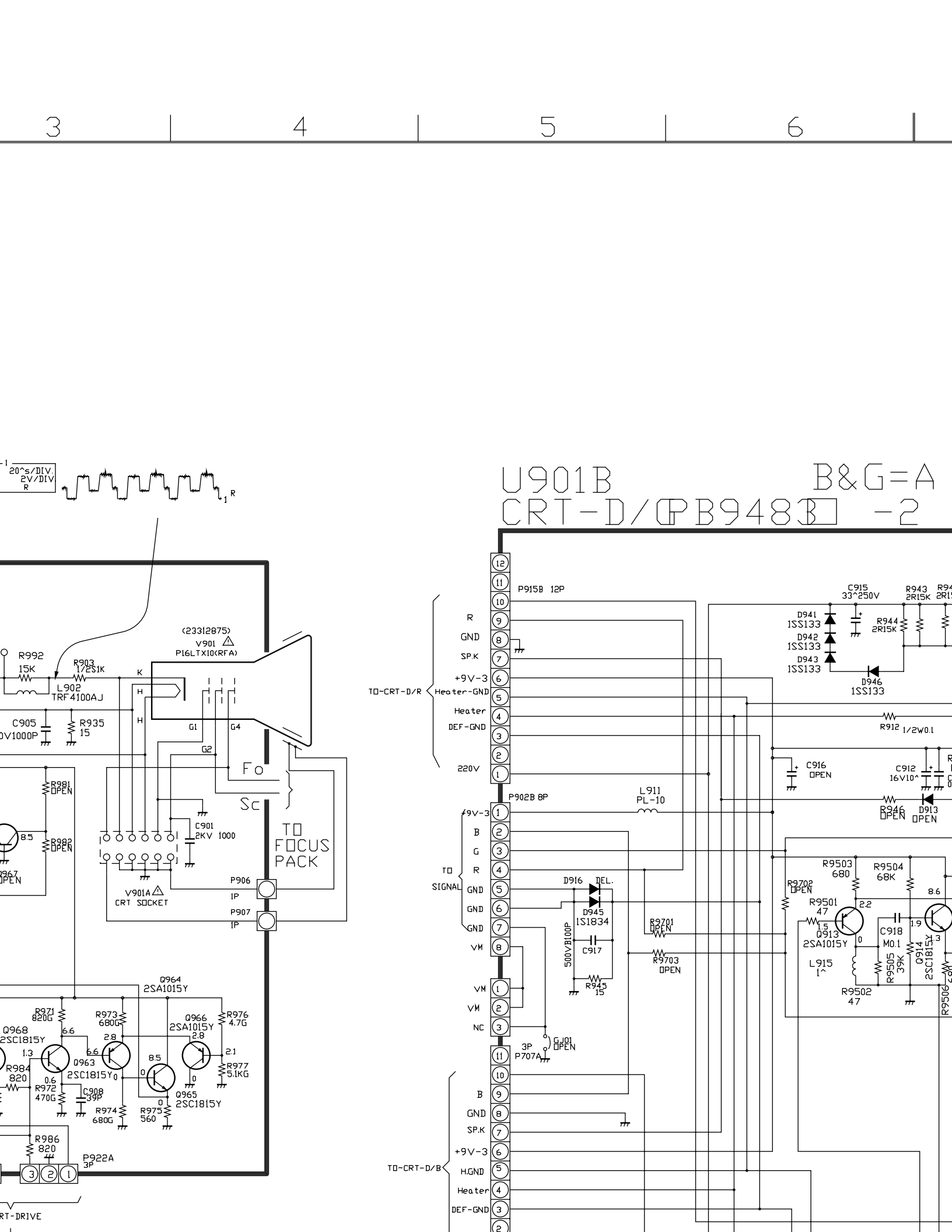
E F G H

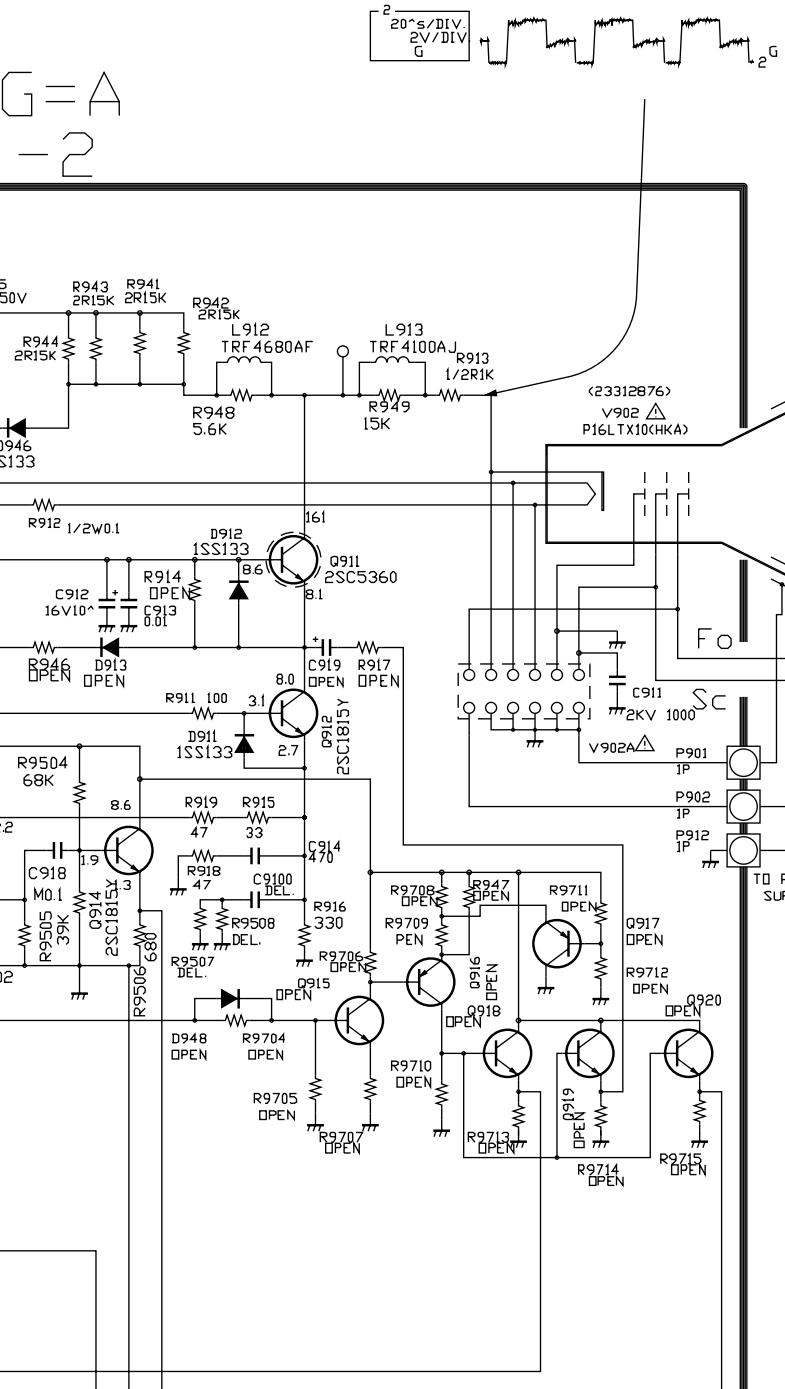
10 11 12


U901A B&G=A
CRT-D/R PB9483 -1
20^s/DIV. 2V/DIV R
TO-CRT-D/G
TO FOCUS PACK
V901A CRT SOCKET
TO-CRT-DRIVE
U901B B&G=A
CRT-D/G PB9483 -2
20^s/DIV. 2V/DIV G
TO-CRT-D/R
TO SIGNAL
TO-CRT-D/B
TO FOCUS PACK SUPPORT
TO-DEF
U901C B&G=A
CRT-D/B PB9483 -3
20^s/DIV. 2V/DIV B
TO FOCUS PACK
U901E B&G=A
SVM R PB9483 -5
DRC=OK
2000/01/19
TO SVM R
TO VM COIL (R)
U901D B&G=A
PB9483 -4
SVM G
TO SVM R
TO SVM B
TO POWER
TO RGB-G
TO VM COIL (G)
DRC=OK
2000/01/19
U901F
SVM B B&G=A
PP9483 -6
DRC=OK
2000/01/19
TO SVM R
TO VM COIL (B)

CRT-D SVM
40WH08B/46WH08B
56WH08B

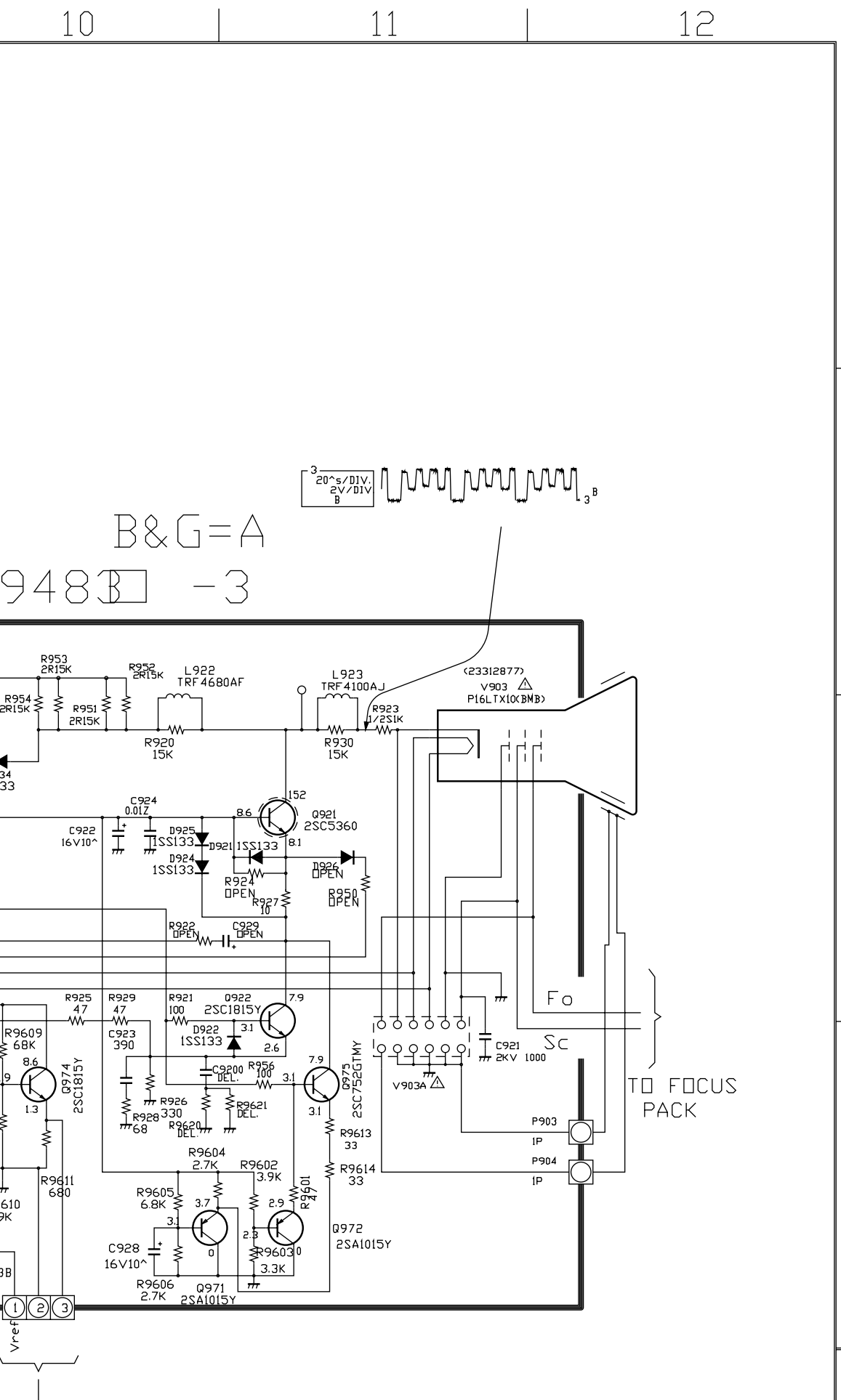

1
2
3
A
B
C
D
U901A
B&G=A
CRT-D/RP B9483□ -1
20^s/DIV.
2V/DIV
R
C906 DEL.
R931 2R15K
R932 2R15K
D963 1SS133
D964 1SS133
R937 2R15K
D965 1SS133
D966 1SS133
R936 2R15K
L903 TRF4680AF
R992 15K
R991 8.2K
L902 TRF410
C905 500V1000P
C907 500VB100P
R938 15
D904 DEL.
C903 0.01
Q901 2SC5360
D901 1SS133
R903 OPEN
R993 OPEN
C902 16V10^
R904 OPEN
R980 OPEN
R981 OPEN
C965 OPEN
D968 OPEN
C966 OPEN
Q967 OPEN
R982 OPEN
D967 1S1834
C909 OPEN
R902 OPEN
Q902 2SC1815Y
R901 100
D902 1SS133
R905 47
C967 DEL.
R995 DEL.
R906 330
C904 390
R908 68
R909 47
R996 DEL.
C964 M0.1
R978 390G
R961 1K
C961 16V10^
R962 360
Q961 2SC1815Y
R965 470
C962 16V10^
R964 3.3K
R966 330
R979 OPEN
R987 47
Q962 2SA1015Y
R967 680
R969 68K
R971 820G
Q968 2SC1815Y
C963 M0.1
L962 1^
R970 39K
R968 47
R984 820
R983 680
R972 470G
R985 820
R986 820
P923A 3P
L961 PL-10
P915A 12P
R
GND
SP.K
+9V-3
Heater-GND
Heater
DEF-GND
220V
TO-CRT-D/G
TO-CRT-DRIVE

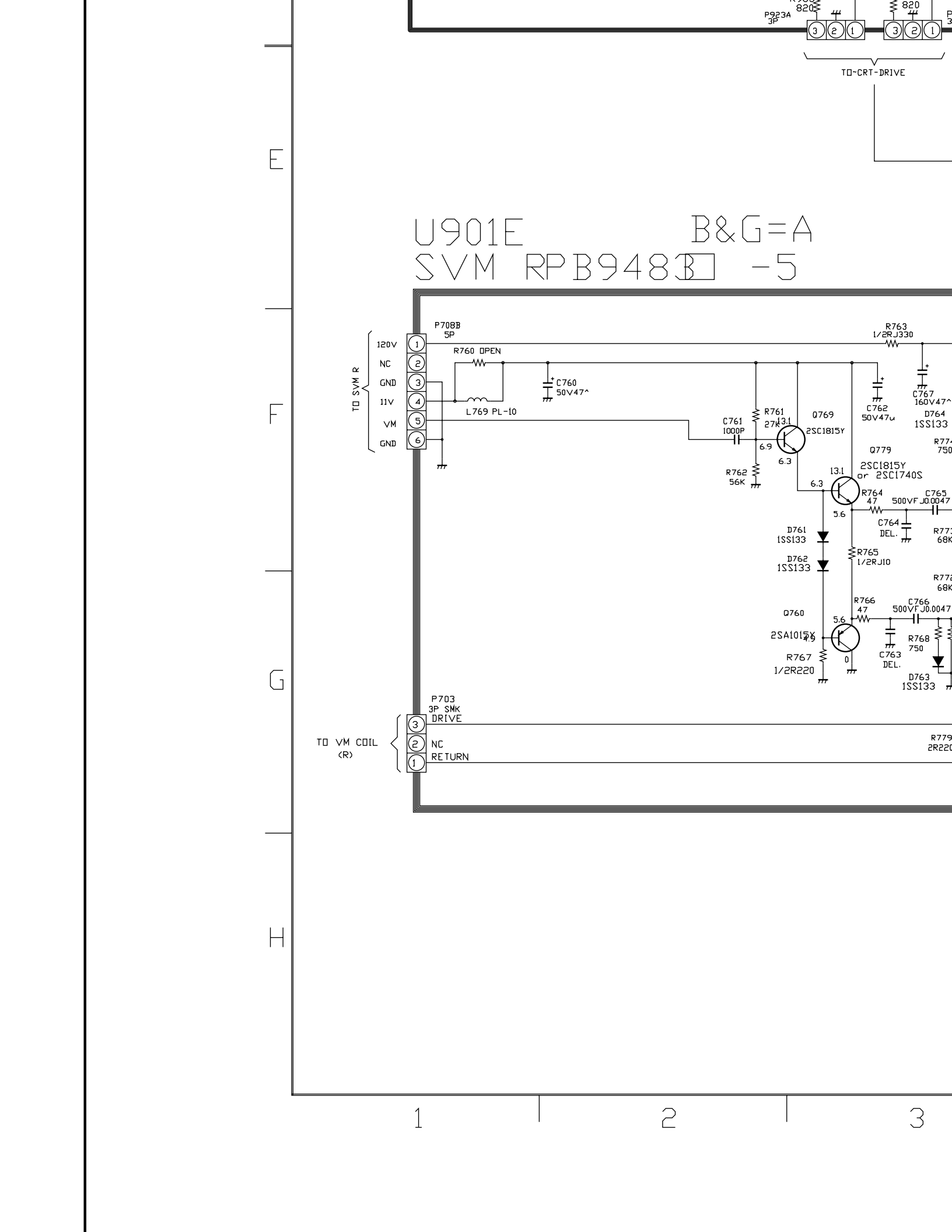

3
4
5
6
20^s/DIV.
2V/DIV
R
R992
15K
R903
1/2S1K
L902
TRF4100AJ
C905
0V1000P
R935
15
(23312875)
V901
P16LTX10(RFA)
K
H
G1
G4
G2
Fo
Sc
TO
FOCUS
PACK
C901
2KV 1000
V901A
CRT SOCKET
P906
IP
P907
IP
R981
OPEN
R982
OPEN
8.5
Q967
OPEN
Q964
2SA1015Y
R971
820G
R973
680G
Q966
2SA1015Y
R976
4.7G
Q968
2SC1815Y
6.6
2.8
1.3
Q963
2SC1815Y
R984
820
0.6
R972
470G
C908
39P
8.5
R977
5.1KG
R974
680G
R975
560
Q965
2SC1815Y
R986
820
P922A
3P
RT-DRIVE
U901B
CRT-D/(P)B9483□ -2
B&G=A
P915B 12P
R
GND
SP.K
+9V-3
Heater-GND
Heater
DEF-GND
220V
TO-CRT-D/R
P902B 8P
+9V-3
B
G
R
GND
GND
GND
VM
VM
VM
NC
TO
SIGNAL
3P
P707A
G101
OPEN
B
GND
SP.K
+9V-3
H.GND
Heater
DEF-GND
TO-CRT-D/B
L911
PL-10
D916
DEL.
D945
1S1834
500V/B100P
C917
R945
15
R9701
OPEN
R9703
OPEN
C915
33^250V
D941
1SS133
D942
1SS133
D943
1SS133
D946
1SS133
R944
2R15K
R943
2R15K
R912
1/2W0.1
C916
OPEN
C912
16V10^
R946
OPEN
D913
OPEN
R9503
680
R9504
68K
R9702
OPEN
R9501
47
Q913
2SA1015Y
C918
M0.1
L915
1^
R9505
39K
Q914
2SC1815Y
R9502
47
R9506

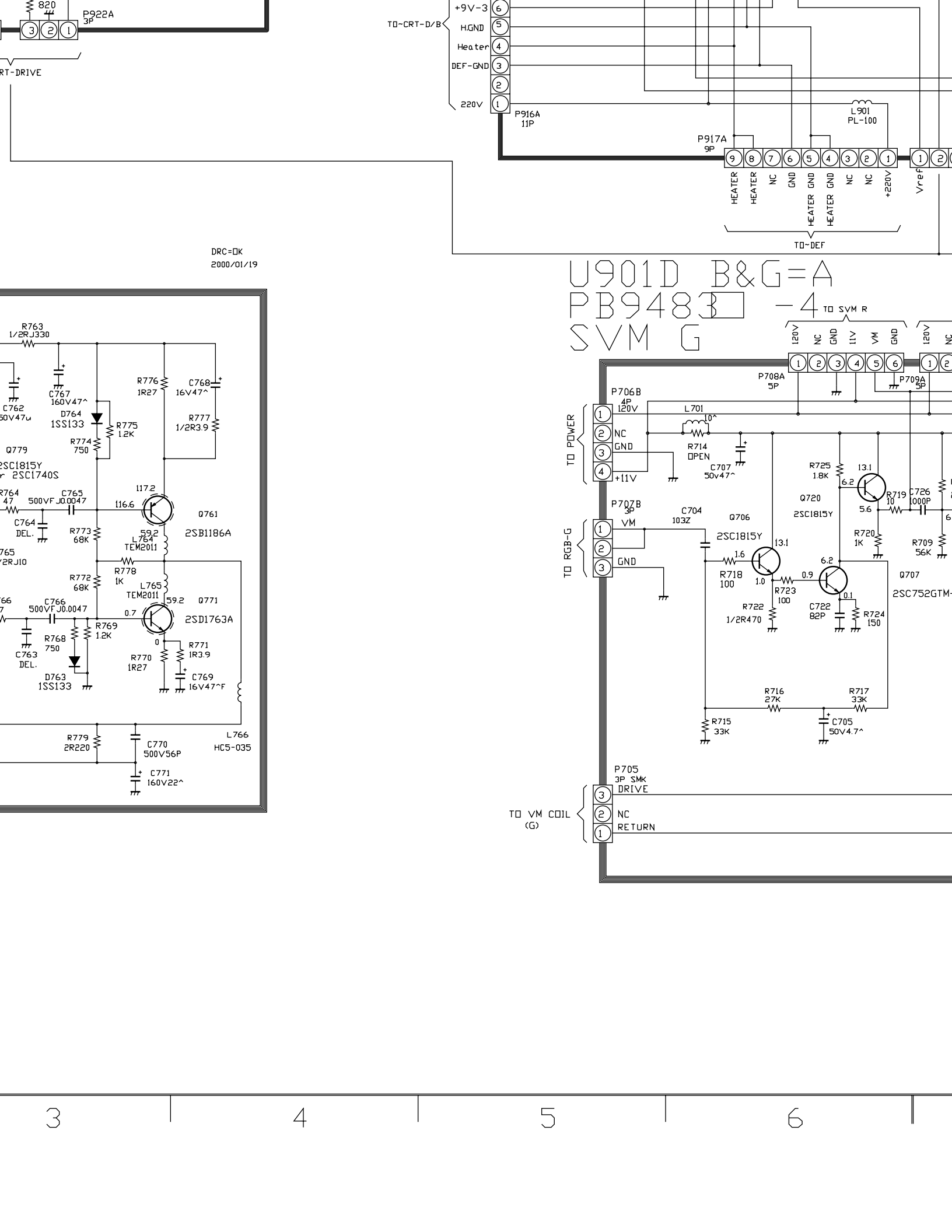

20^s/DIV.
2V/DIV
G
G=A
-2
R943 2R15K
R941 2R15K
R942 2R15K
L912 TRF4680AF
L913 TRF4100AJ
R913 1/2R1K
R944 2R15K
R948 5.6K
R949 15K
R912 1/2W0.1
D912 1SS133
Q911 2SC5360
R914 OPEN
C912 16V10^
C913 0.01
D913 OPEN
R946 OPEN
C919 OPEN
R917 OPEN
R911 100
D911 1SS133
Q912 2SC1815Y
R9504 68K
R919 47
R915 33
C914 470
C918 M0.1
R918 47
C9100 DEL.
R9508 DEL.
R916 330
R9505 39K
Q914 2SC1815Y
R9506 680
R9507 DEL.
R9706 OPEN
Q915 OPEN
D948 OPEN
R9704 OPEN
R9705 OPEN
R9707 OPEN
R9708 OPEN
R9709 PEN
R947 OPEN
R9711 OPEN
Q916 OPEN
Q917 OPEN
R9712 OPEN
Q918 OPEN
Q920 OPEN
R9710 OPEN
R9713 OPEN
Q919 OPEN
R9714 OPEN
R9715 OPEN
<23312876>
V902
P16LTX10(HKA)
TO FOCUS PACK
M418
M417
C911 2KV 1000
SC
V902A
P901 1P
P902 1P
P912 1P
M912
TO FOCUS PACK SUPPORT

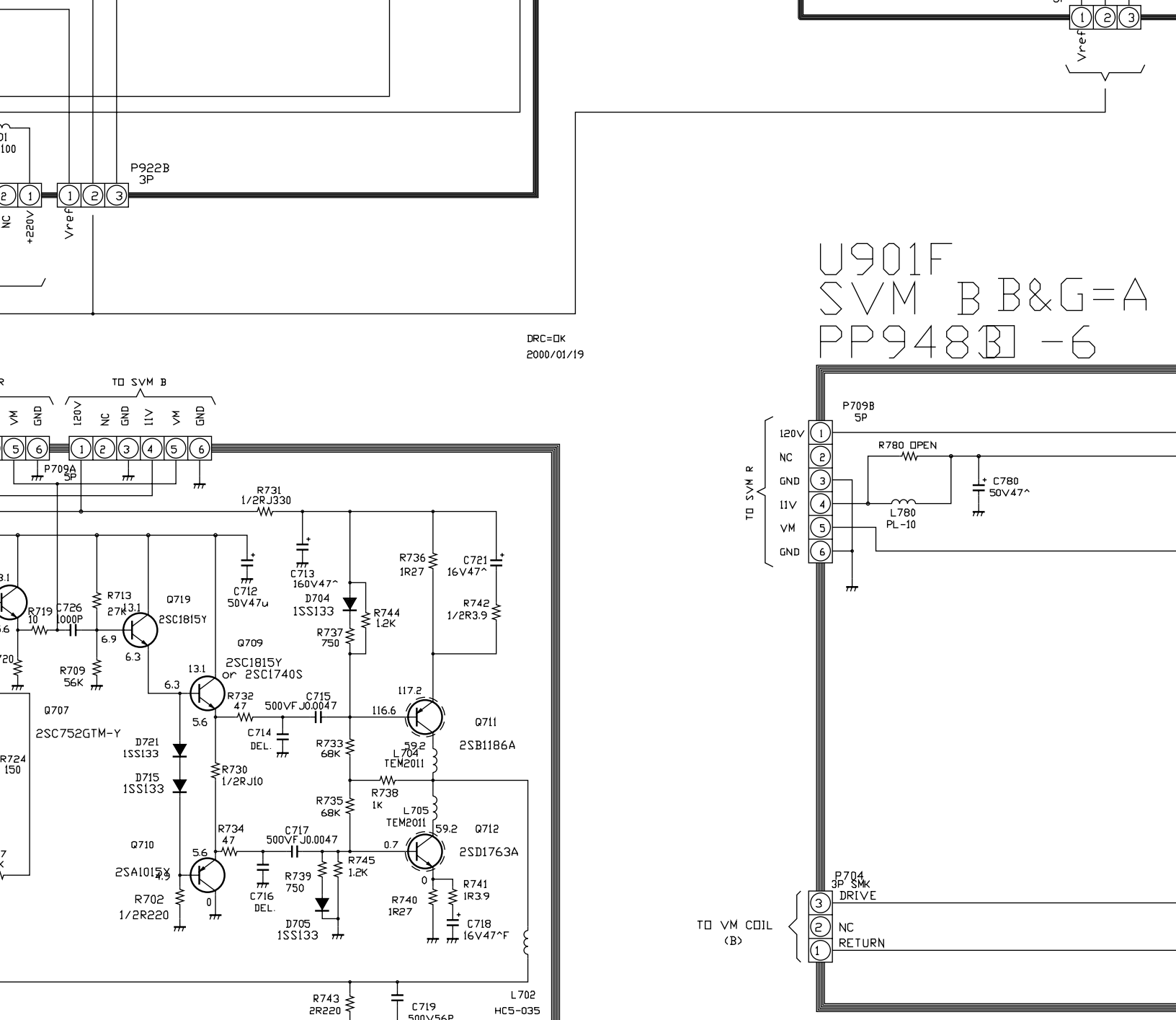
U901C
CRT-D/B

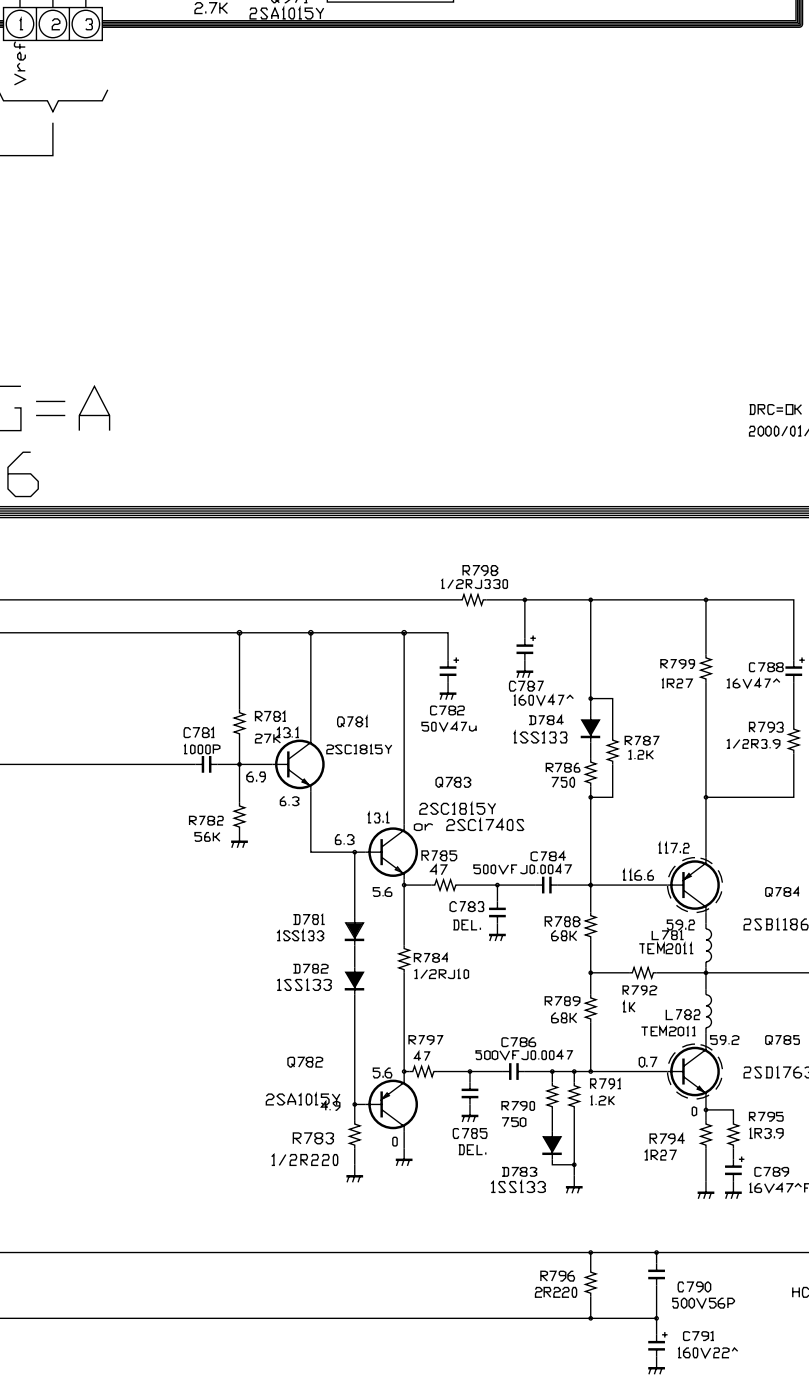
C925 DEL.
R953 2R15K
D931 1SS133
D932 1SS133
D933 1SS133
R954 2R15K
R951 2R15K
D934 1SS133
C922 16V10^
B
GND
SP.K
+9V-3
Heater-GND
Heater
DEF-GND
220V
TO-CRT-D/G
P916B 11P
R925 47
R9608 680
R9609 68K
Q973 2SA1015Y
Q974 2SC1815Y
R9607 47
C927 M0.1
L925 1^
R9612 47
R9610 39K
R9611 680
D936 1S1834
C926 500VB100P
R959 15
P923B 3P
Vref


10
11
12
A
B
C
D
B&G=A
9483 -3
3
20^s/DIV.
2V/DIV
B
3B
R953
2R15K
R952
2R15K
L922
TRF4680AF
L923
TRF4100AJ
(23312877)
V903
P16LTX10(BMB)
R954
2R15K
R951
2R15K
R920
15K
R930
15K
R923
1/2S1K
34
33
C924
0.01Z
152
8.6
Q921
2SC5360
C922
16V10^
D925
1SS133
D921
1SS133
8.1
D924
1SS133
R924
OPEN
D926
OPEN
R927
10
R950
OPEN
R922
OPEN
C929
OPEN
R925
47
R929
47
R921
100
Q922
2SC1815Y
7.9
D922
1SS133
3.1
2.6
C923
390
C9200
DEL.
R956
100
3.1
7.9
Q975
2SC5200TMY
R9609
68K
8.6
Q974
2SC1815Y
1.3
R926
330
R928
68
R9620
DEL.
R9621
DEL.
V903A
C921
2KV 1000
Fo
Sc
TO FOCUS
PACK
P903
1P
P904
1P
R9613
33
R9614
33
R9604
2.7K
R9602
3.9K
R9605
6.8K
3.7
2.9
R9601
470
3.1
2.3
Q972
2SA1015Y
C928
16V10^
0
R96030
3.3K
R9606
2.7K
Q971
2SA1015Y
R9611
680
610
9K
3B
1
2
3
Vref

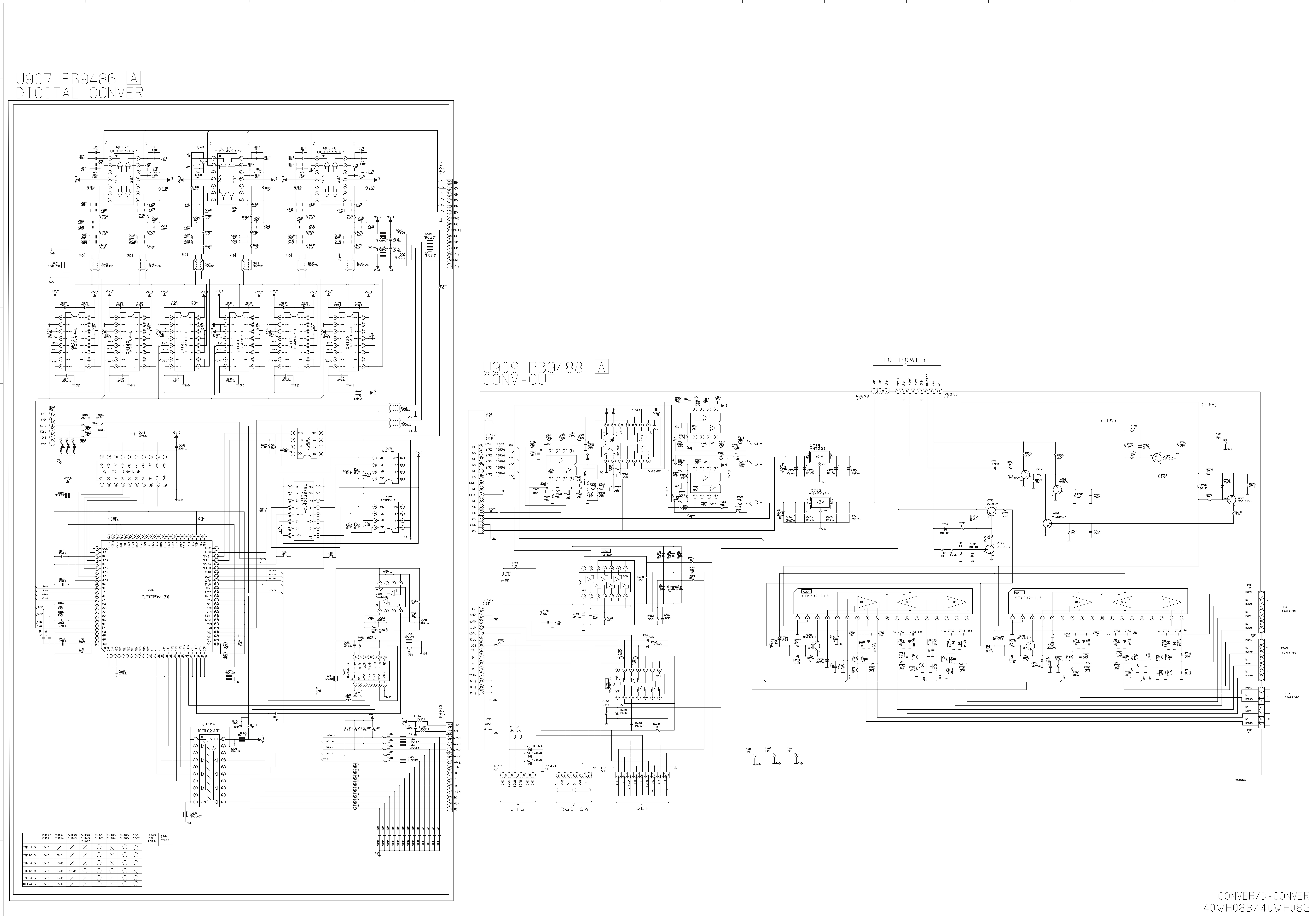

P923A
3P
820
820
3
2
1
TO-CRT-DRIVE
U901E
B&G=A
SVM RPB948□ -5
P708B
5P
TO SVM R
120V
NC
GND
11V
VM
GND
R760 OPEN
L769 PL-10
C760
50V47^
R763
1/2RJ330
C762
50V47u
C767
160V47^
D764
1SS133
R761
27K
C761
1000P
Q769
2SC1815Y
13.1
6.9
6.3
R762
56K
Q779
2SC1815Y
or 2SC1740S
13.1
6.3
R764
47
5.6
C765
500VF J0.0047
C764
DEL.
D761
1SS133
D762
1SS133
R765
1/2RJ10
R766
47
C766
500VF J0.0047
Q760
2SA1015Y
5.6
4.9
0
R767
1/2R220
C763
DEL.
R768
750
D763
1SS133
P703
3P SMK
DRIVE
NC
RETURN
TO VM COIL
(R)
E
F
G
H
1
2
3


820
P922A
3P
RT-DRIVE
TO-CRT-D/B
+9V-3
H.GND
Heater
DEF-GND
220V
P916A
11P
L901
PL-100
P917A
9P
HEATER
HEATER
NC
GND
HEATER GND
HEATER GND
NC
NC
+220V
Vref
TO-DEF
DRC=OK
2000/01/19
U901D B&G=A
PB9483 -4
SVM G
TO SVM R
120V
NC
GND
11V
VM
GND
P708A
5P
P709A
5P
P706B
4P
120V
NC
GND
+11V
TO POWER
L701
10^
R714
OPEN
C707
50V47^
P707B
3P
VM
GND
TO RGB-G
C704
103Z
Q706
2SC1815Y
R718
100
R723
100
R722
1/2R470
C722
82P
R724
150
Q720
2SC1815Y
R725
1.8K
R719
10
C726
1000P
R720
1K
R709
56K
Q707
2SC752GTM-
R716
27K
R717
33K
R715
33K
C705
50V4.7^
P705
3P SMK
DRIVE
NC
RETURN
TO VM COIL
(G)
R763
1/2RJ330
C762
50V47u
C767
160V47^
D764
1SS133
R775
1.2K
R774
750
R776
1R27
C768
16V47^
R777
1/2R3.9
Q779
2SC1815Y
2SC1740S
R764
47
C765
500VF J0.0047
C764
DEL.
R773
68K
L764
TEM2011
R778
1K
L765
TEM2011
R772
68K
C766
500VF J0.0047
R768
750
C763
DEL.
D763
1SS133
R769
1.2K
R770
1R27
R771
1R3.9
C769
16V47^F
Q761
2SB1186A
Q771
2SD1763A
R779
2R220
C770
500V56P
C771
160V22^
L766
HC5-035


P922B
3P
NC
+220V
Vref
Vref
U901F
SVM B B&G=A
PP948B -6
DRC=OK
2000/01/19
TO SVM B
P709A
5P
VM
GND
120V
NC
GND
11V
VM
GND
R731
1/2RJ330
C712
50V47u
C713
160V47^
D704
1SS133
R744
1.2K
R737
750
R736
1R27
C721
16V47^
R742
1/2R3.9
Q719
2SC1815Y
R719
10
C726
1000P
R713
27K
R709
56K
Q709
2SC1815Y
or 2SC1740S
Q707
2SC752GTM-Y
R732
47
C715
500VFJ0.0047
C714
DEL.
R733
68K
L704
TEM2011
Q711
2SB1186A
R738
1K
L705
TEM2011
R735
68K
D721
1SS133
D715
1SS133
R730
1/2RJ10
R734
47
C717
500VFJ0.0047
Q710
2SA1015Y
R745
1.2K
R739
750
C716
DEL.
D705
1SS133
R702
1/2R220
R740
1R27
R741
1R3.9
C718
16V47^F
Q712
2SD1763A
R743
2R220
C719
500V56P
C720
160V22^
L702
HC5-035
P709B
5P
TO SVM R
120V
NC
GND
11V
VM
GND
R780 OPEN
C780
50V47^
L780
PL-10
P704
3P SMK
DRIVE
NC
RETURN
TO VM COIL
(B)



CRT-D SVM
40WH08B/46WH08B
56WH08B

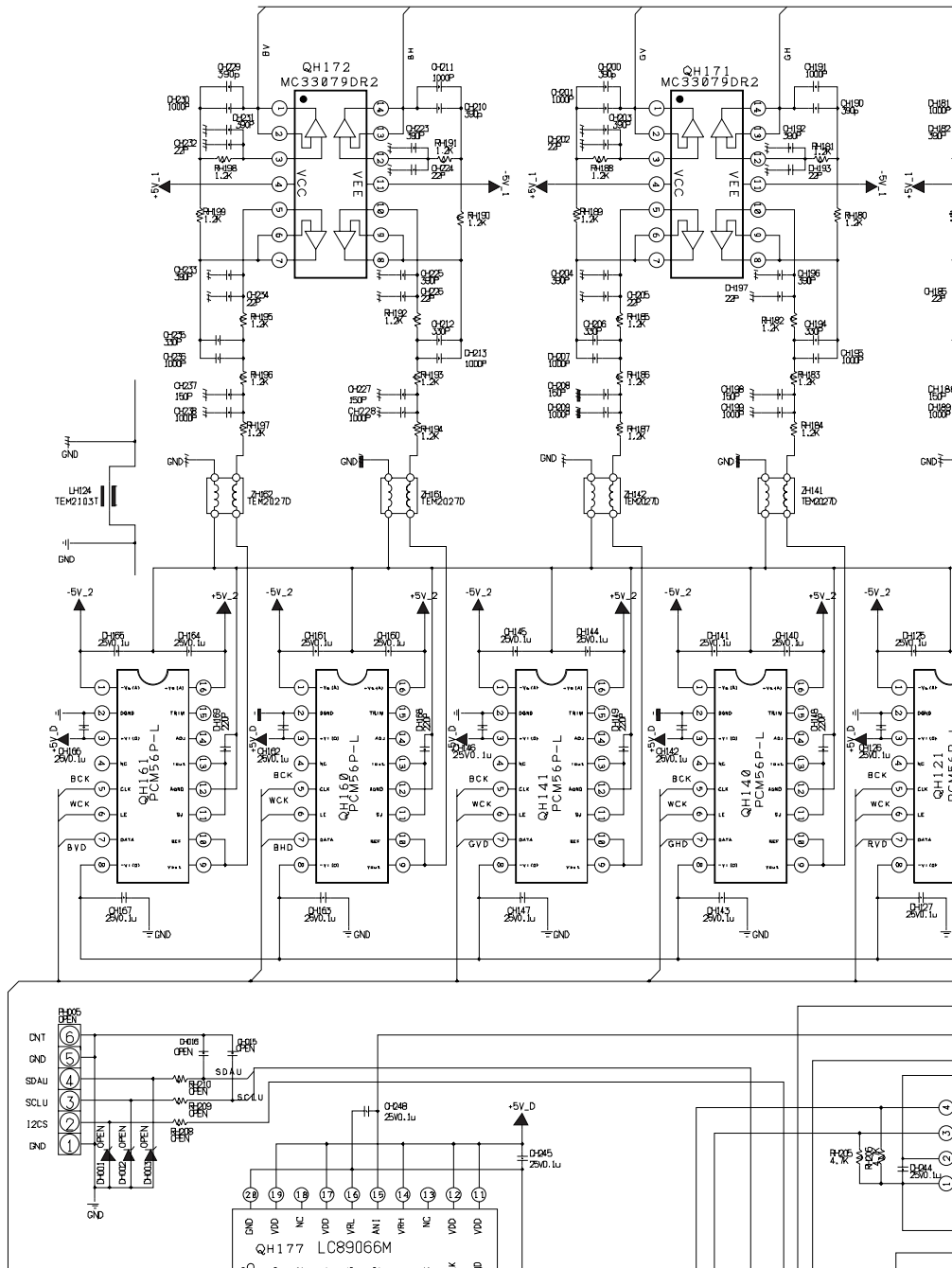

U907 PB9486 A
DIGITAL CONVER
QH172 MC33079DR2
QH171 MC33079DR2
QH170 MC33079DR2
QH161 PCM56P-L
QH160 PCM56P-L
QH141 PCM56P-L
QH140 PCM56P-L
QH121 PCM56P-L
QH120 PCM56P-L
PH001 15P
QH177 LC89066M
QH001 TC190C060AF-301
QH174 AT24C1610PC
QH175 AT24C1610PC
QH173 AT24C1610PC
QH176 MC14052BFEL
QH006 MC33078DR2
QH005 TLC2932IPW
QH004 TC74HC244AF
PH002 15P
U909 PB9488 A
CONV-OUT
TO POWER
P803B 3P
P804B 8P
P708 15P
P709 15P
Q755 AN7805
Q782 AN79M05F
Q764 TC74HC14AP
Q767 TC4066BP(N)
Q752 STK392-110
Q751 STK392-110
Q757 2SC1815-Y
Q758 2SC1815-Y
Q759 2SA1015-Y
Q761 2SA1015-Y
Q762 2SC1815-Y
Q772 2SA1015-Y
Q773 2SC1815-Y
Q765 2SC1815-Y
Q766 2SC1815-Y
(+16V)
(-16V)
P720 6P
P702B 6P
P701B 9P
JIG
RGB-SW
DEF
P713 7P
P714 7P
P715 7P
RED CONVER YOKE
GREEN CONVER YOKE
BLUE CONVER YOKE
23783423

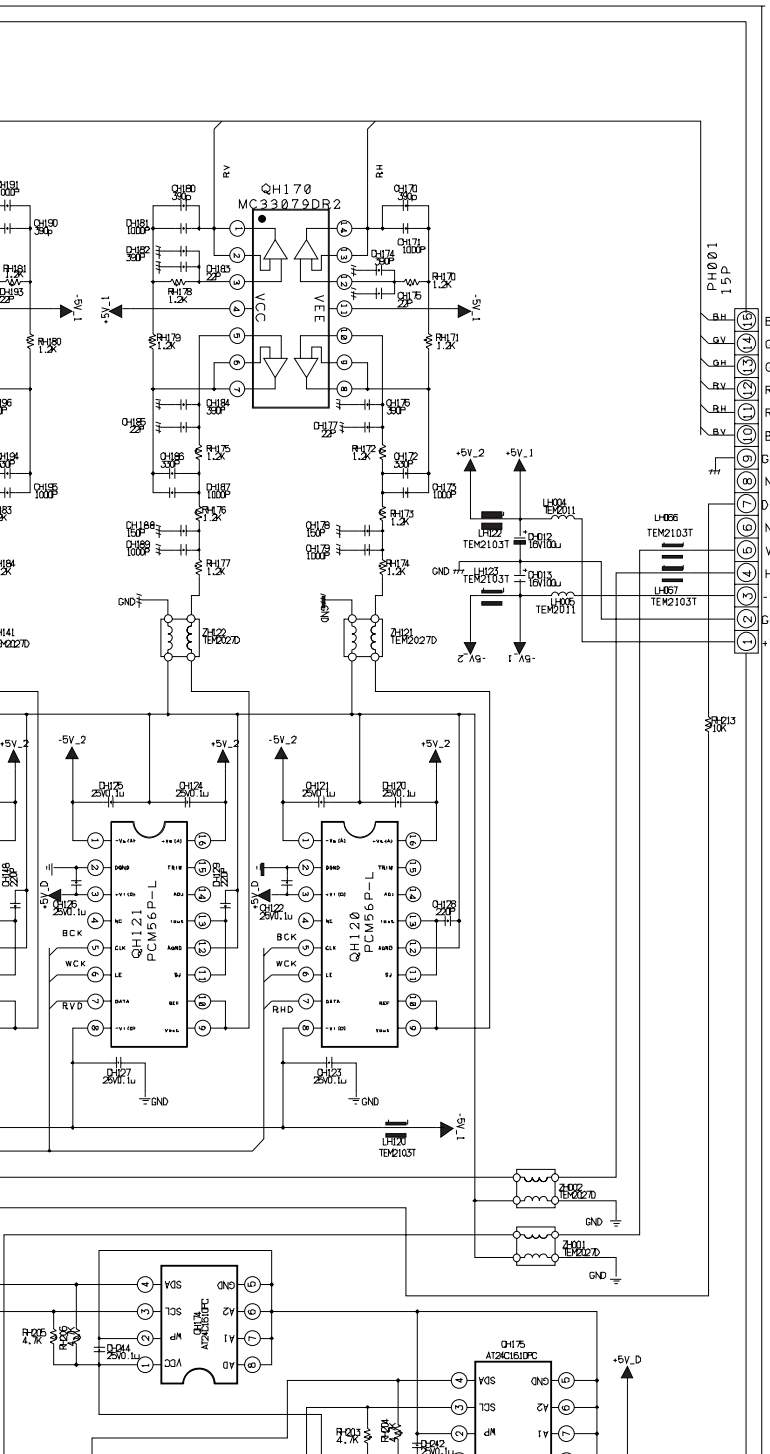
	QH173 CH241	QH174 CH244	QH175 CH242	QH176 CH243 RH207	RH201 RH202	RH203 RH204	RH205 RH206	GJ01 GJ02
TNP 4|3	16KB	×	×	×	○	×	○	○
TNP16|9	16KB	8KB	×	×	○	×	○	○
TUK 4|3	16KB	16KB	×	×	○	×	○	○
TUK16|9	16KB	16KB	16KB	○	○	○	○	×
TSP 4|3	16KB	16KB	×	×	○	×	○	○
DLTV4|3	16KB	16KB	×	×	○	×	○	○

GJ03	GJ04
PAL 100Hz	OTHER

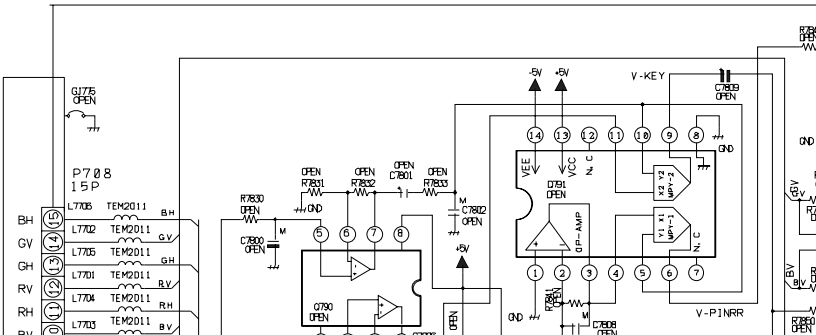
CONVER/D-CONVER
40WH08B/40WH08G

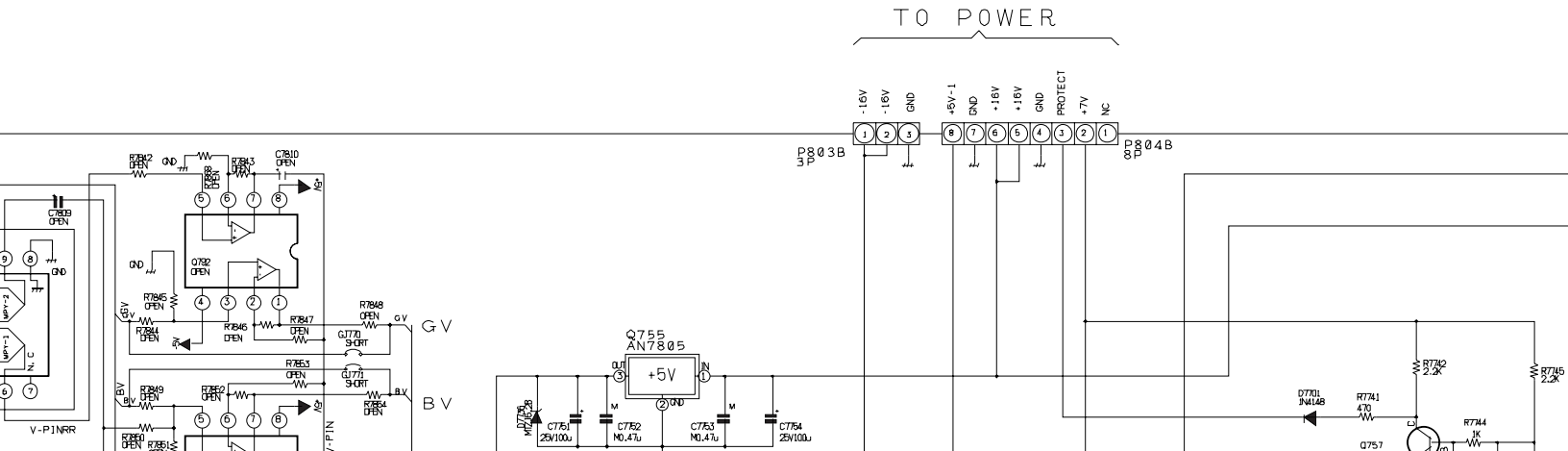
U907 PB9486 [A]
DIGITAL CONVER





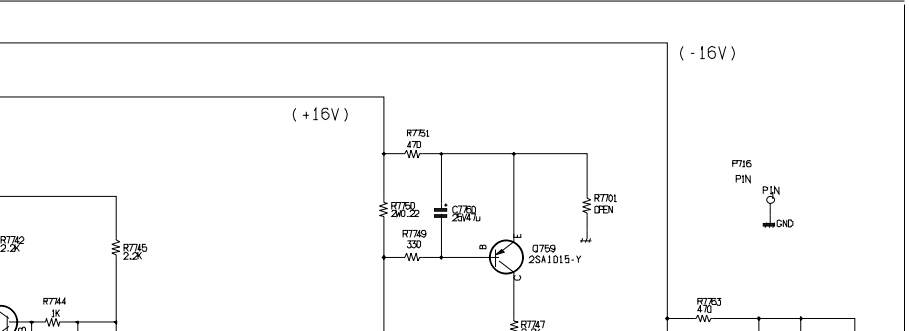
U909 PB9488 A
CONV-OUT

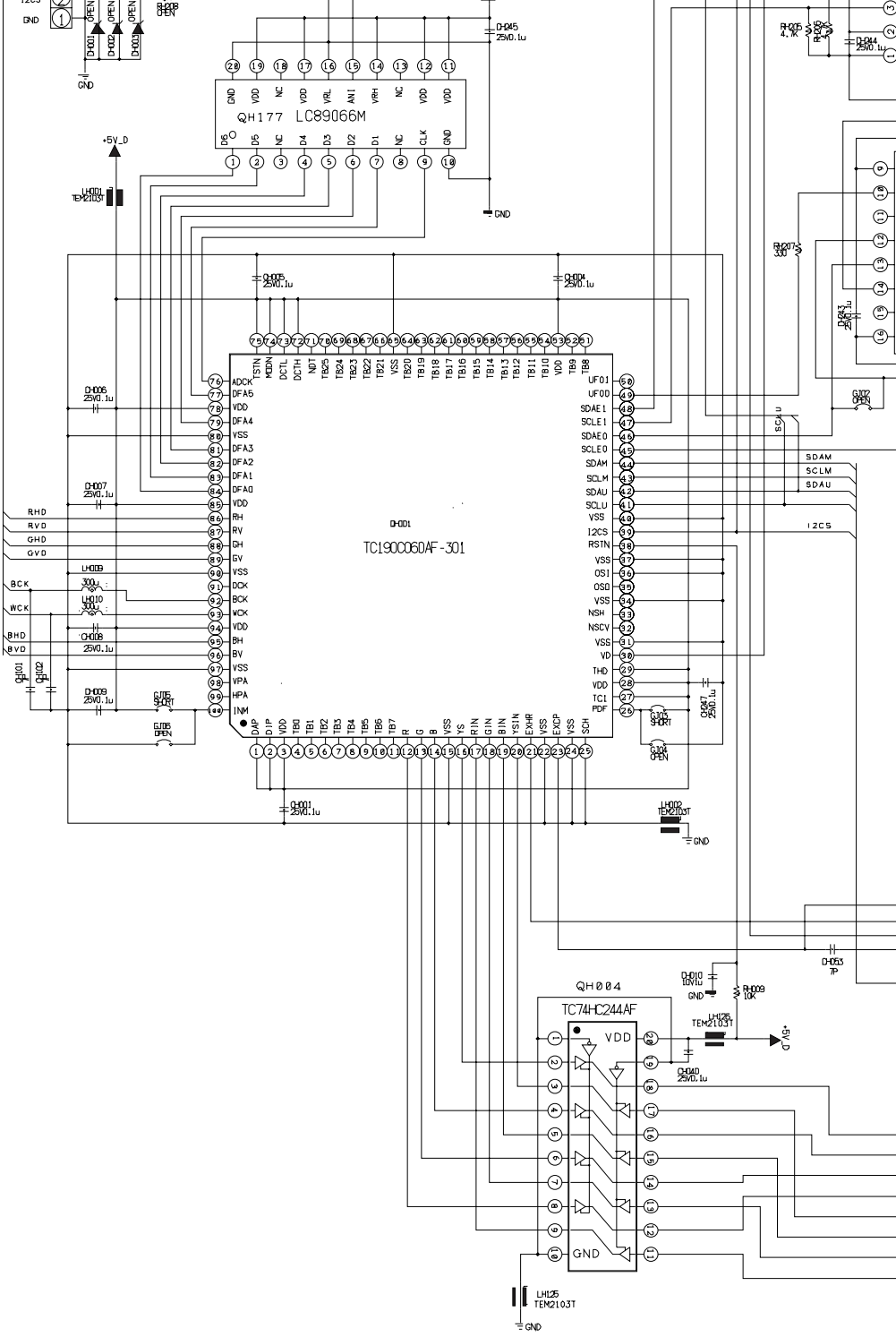



TO POWER
-16V
-16V
GND
+5V-1
GND
+16V
+16V
GND
PROTECT
+7V
NC
P803B
3P
P804B
8P
Q755
AN7805
+5V
OUT
IN
GND
C7751
25V100u
C7752
M0.47u
C7753
M0.47u
C7754
25V100u
D7701
1N4148
R7741
470
R7742
2.2K
R7744
1K
R7745
2.2K
Q757
R7842
OPEN
C7810
OPEN
C7809
OPEN
Q792
OPEN
R7845
OPEN
R7844
OPEN
R7846
OPEN
R7847
OPEN
R7848
OPEN
GV
GJ770
SHORT
R7853
OPEN
GJ771
SHORT
R7849
OPEN
R7852
OPEN
R7854
OPEN
BV
V-PINRR
V-PIN

13 14 15 16

A B C D E F



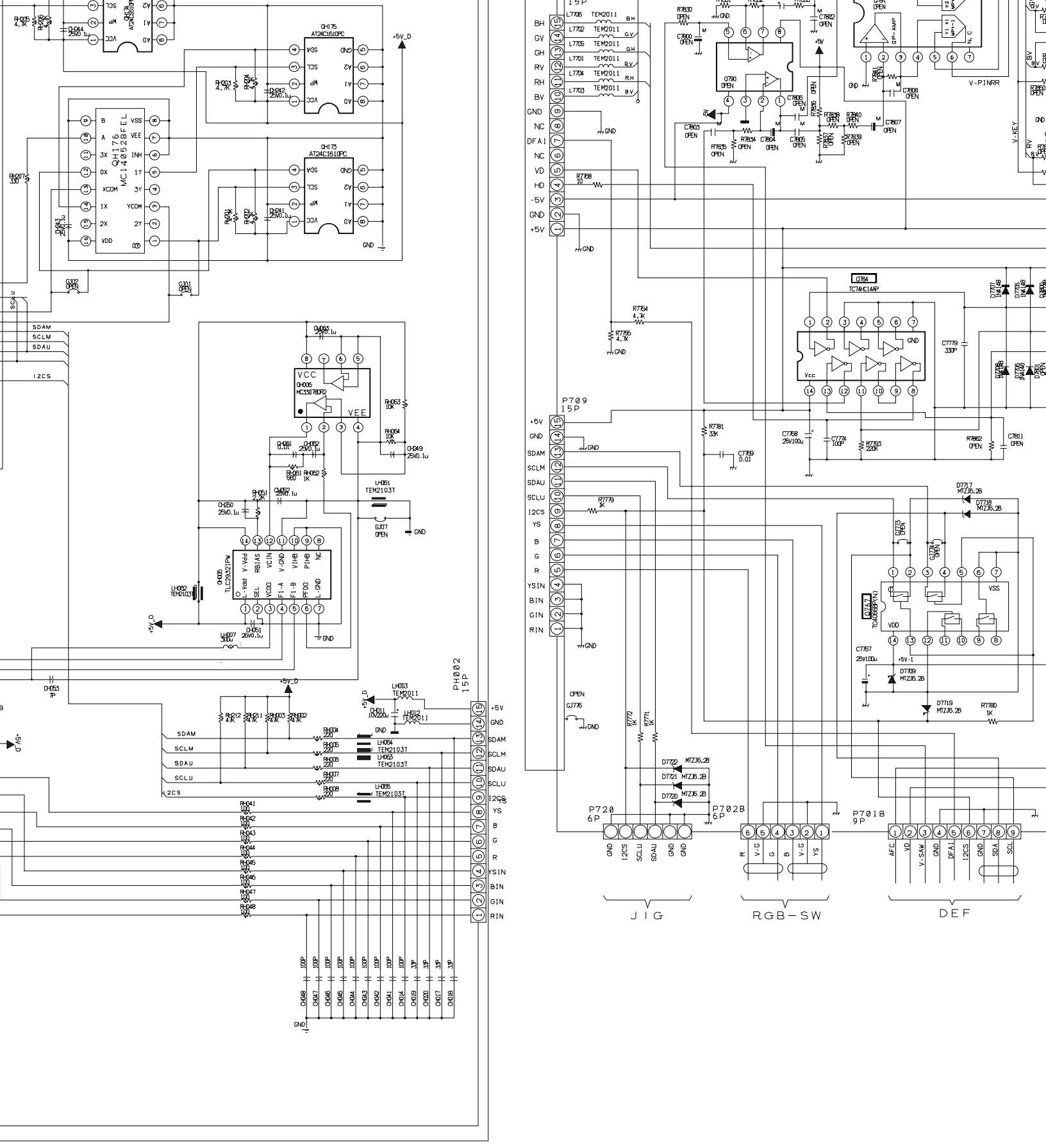


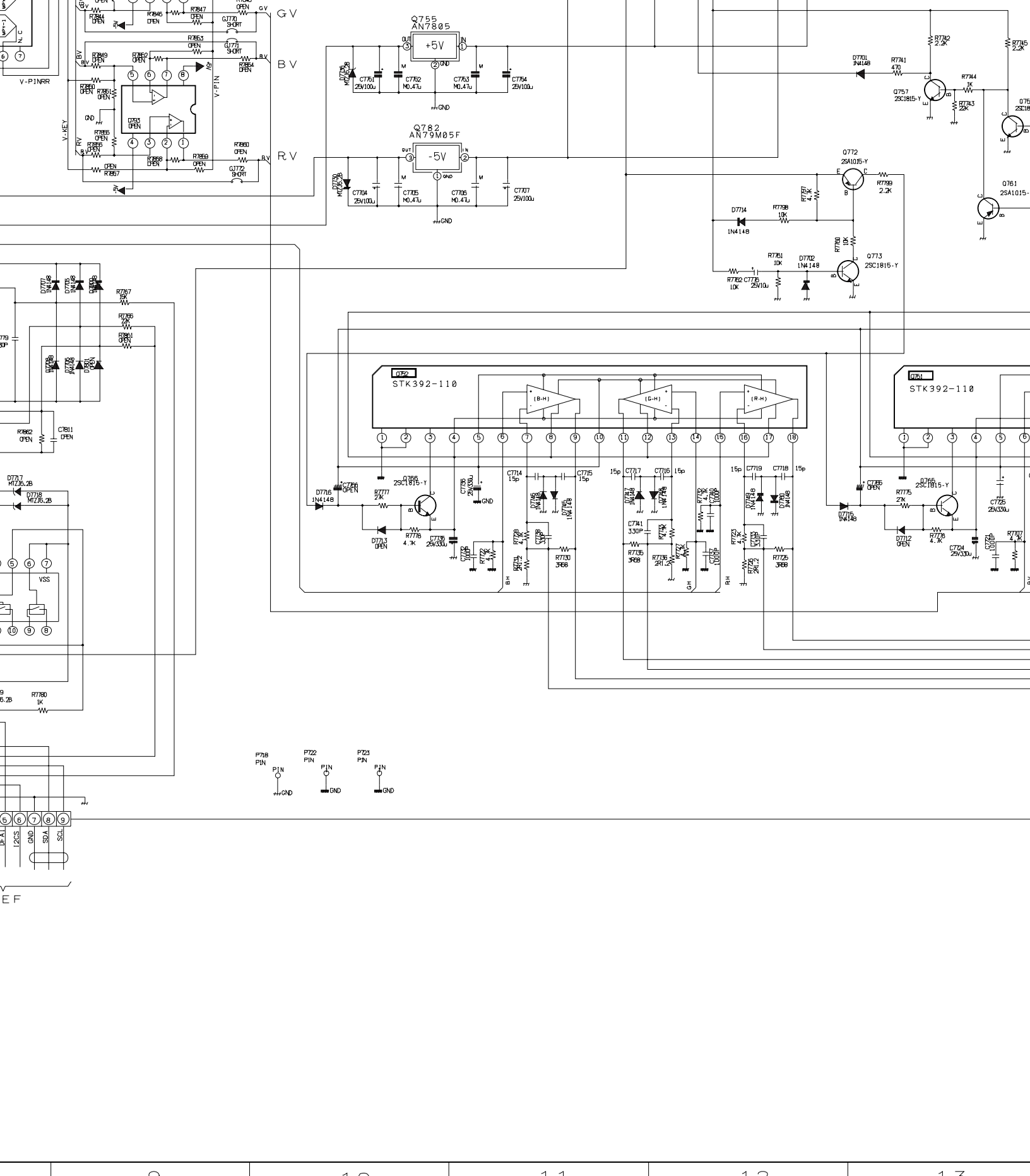
	QH173 CH241	QH174 CH244	QH175 CH242	QH176 CH243 RH207	RH201 RH202	RH203 RH204	RH205 RH206	GJ01 GJ02
TNP 4|3	16KB	×	×	×	○	×	○	○
TNP16|9	16KB	8KB	×	×	○	×	○	○
TUK 4|3	16KB	16KB	×	×	○	×	○	○
TUK16|9	16KB	16KB	16KB	○	○	○	○	×
TSP 4|3	16KB	16KB	×	×	○	×	○	○
DLTV4|3	16KB	16KB	×	×	○	×	○	○

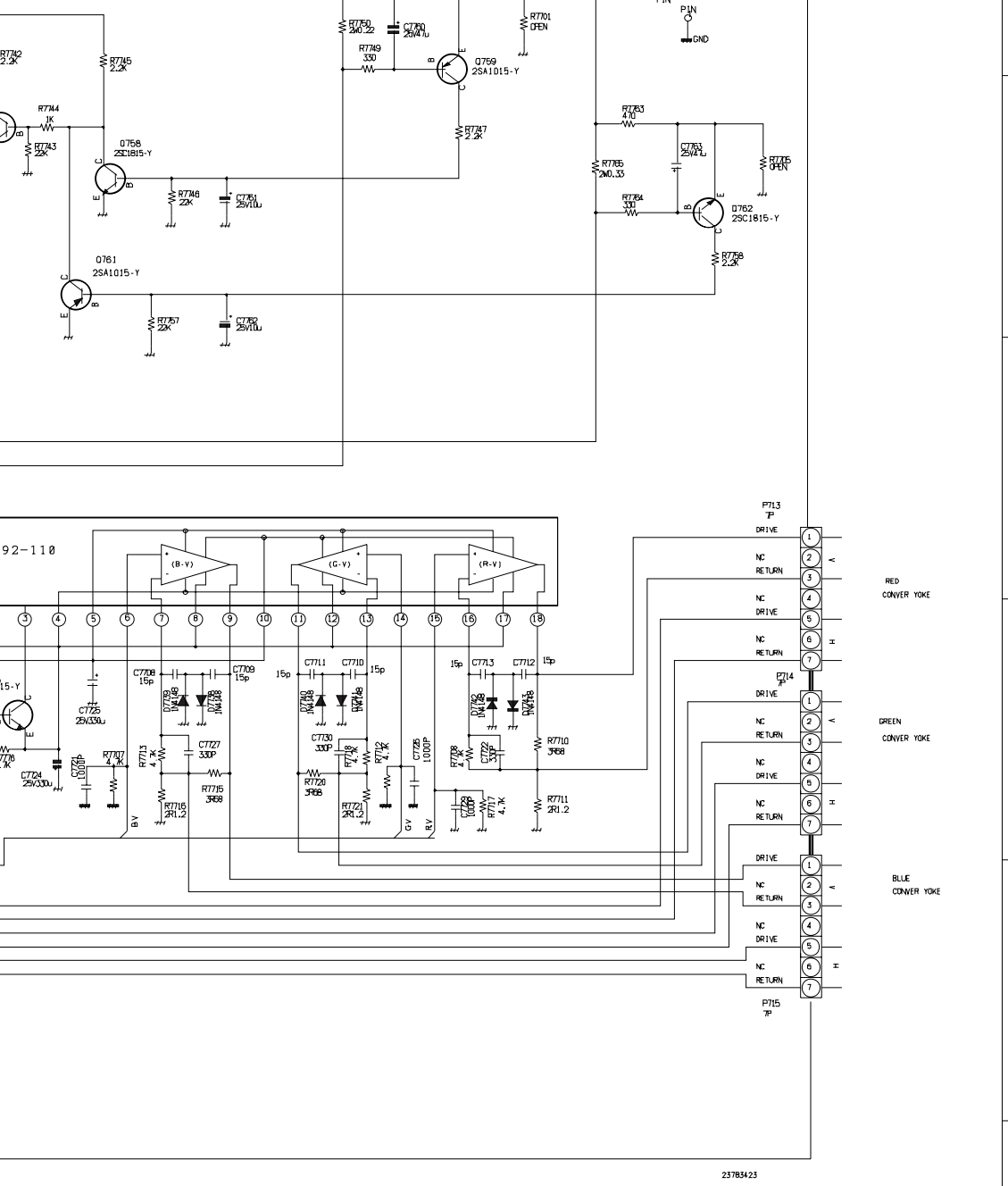
GJ03	GJ04
PAL 100Hz	OTHER

1 2 3 4

G H I J K L


P709
15P
P702
15P
P720
6P
P702B
6P
P701B
9P
JIG
RGB-SW
DEF
SDAM
SCLM
SDAU
SCLU
I2CS
+5V
GND
VCC
VEE
V-PINRR
V-KEY
+5V-1
-5V
BH
GV
GH
RV
RH
BV
DFAI
VD
HD
YS
B
G
R
YSIN
BIN
GIN
RIN
V-G
V-SAW
AFC
SDA
SCL

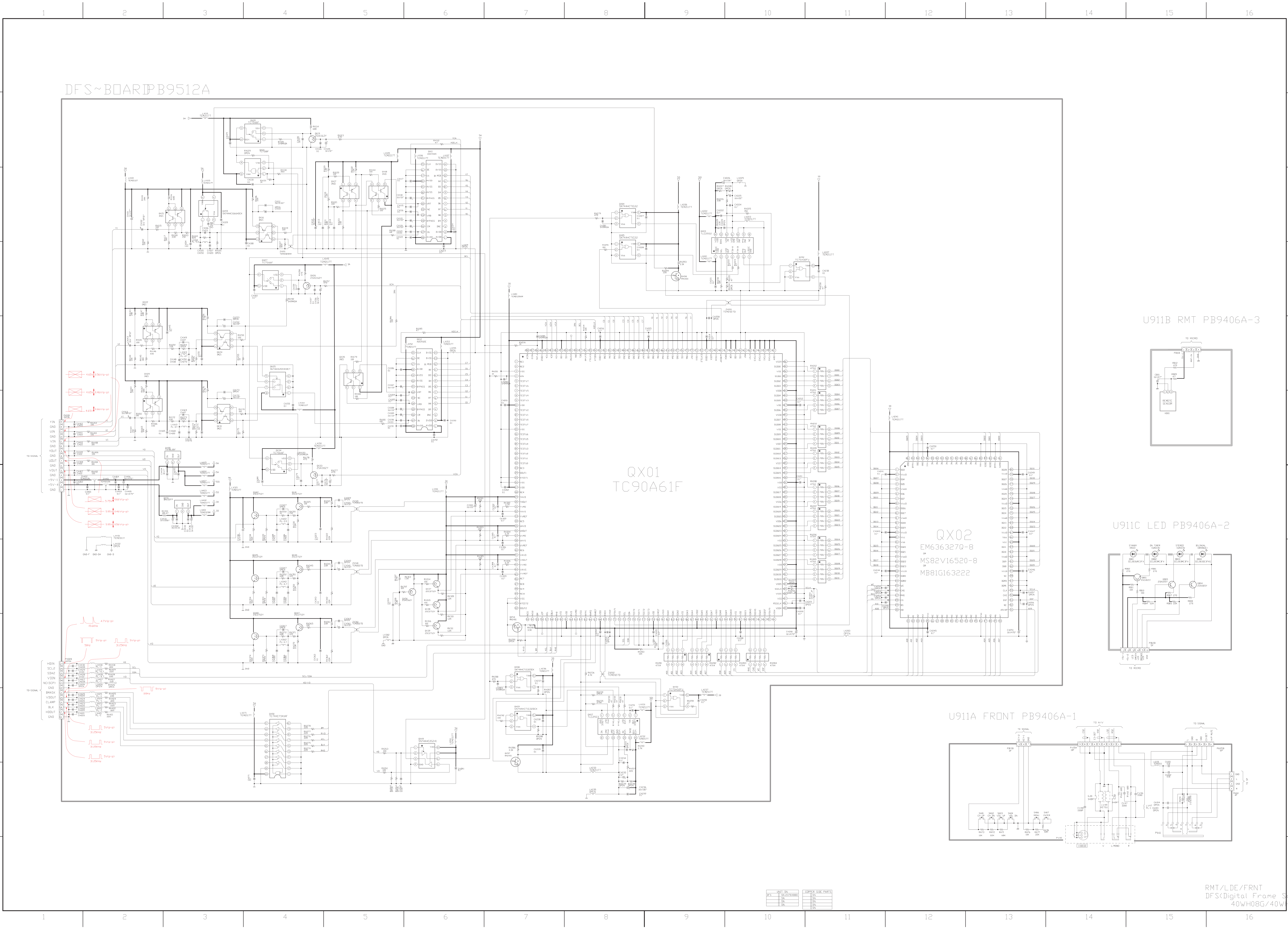

Q755
AN7805
+5V
Q782
AN79M05F
-5V
GV
BV
RV
V-PINRR
V-PIN
V-KEY
Q772
2SA1015-Y
Q773
2SC1815-Y
Q752
STK392-110
Q751
STK392-110
(B-H)
(G-H)
(R-H)
VSS
P718
P722
P723
PIN
GND
SDA
SCL



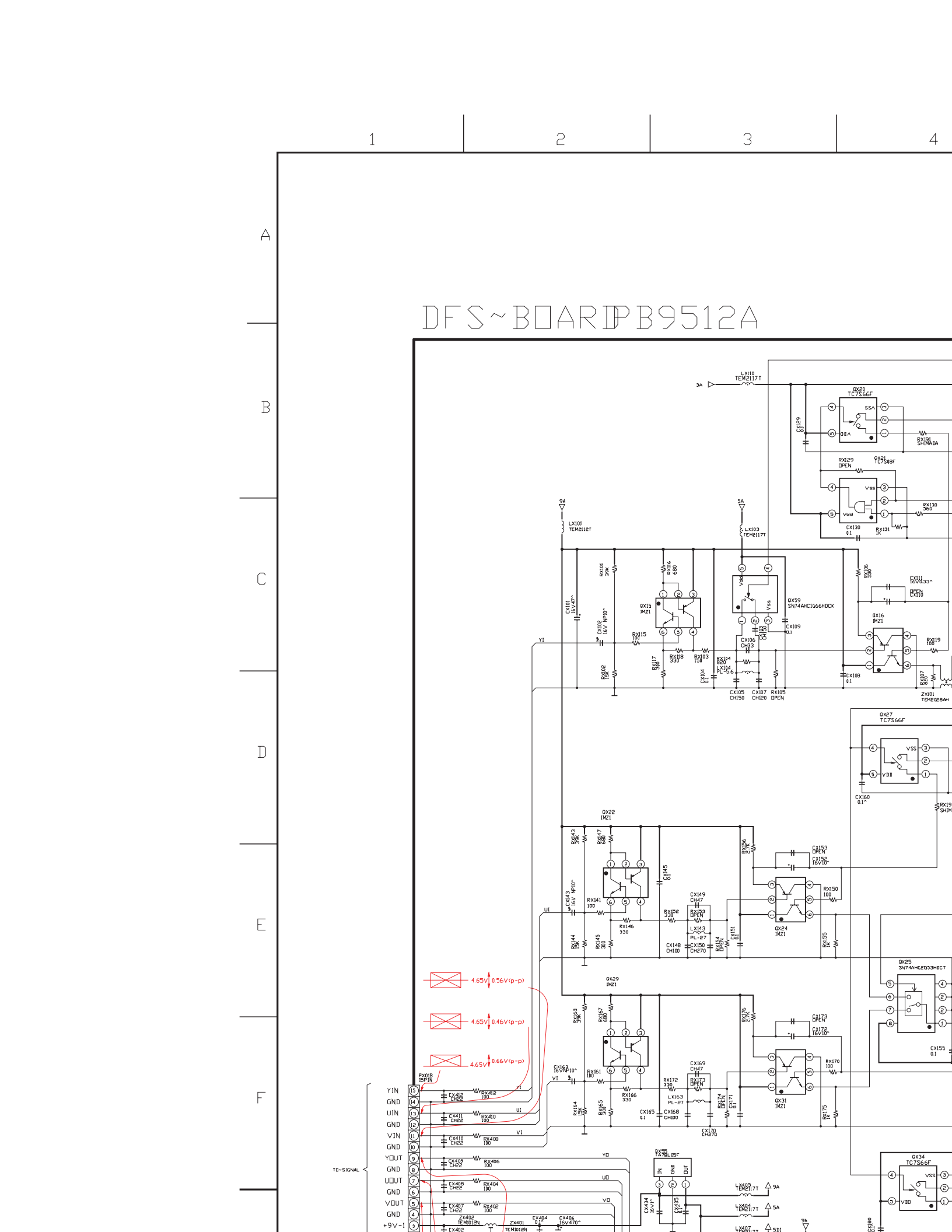
CONVER/D-CONVER
40WH08B/40WH08G

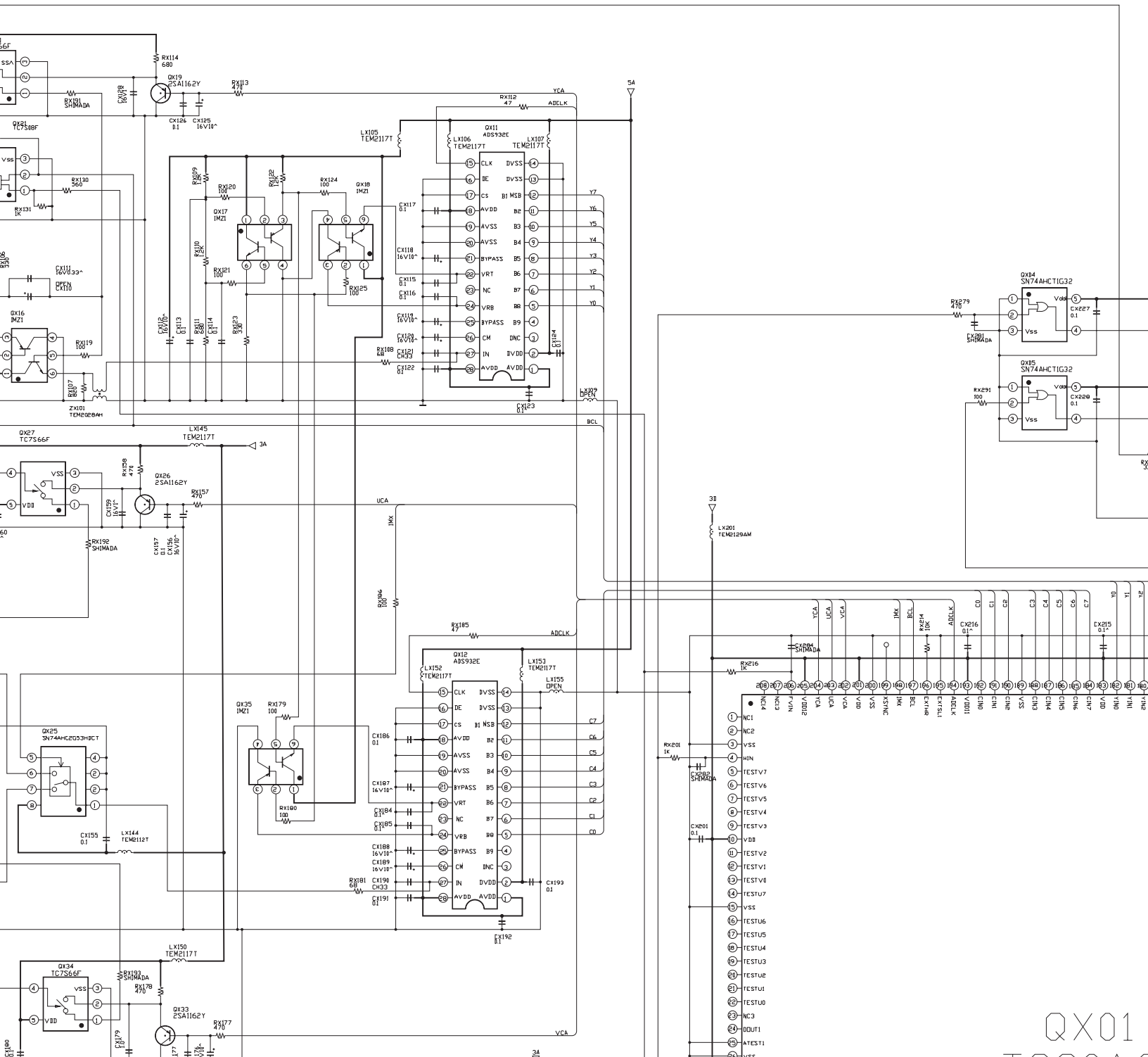
G H I J K L

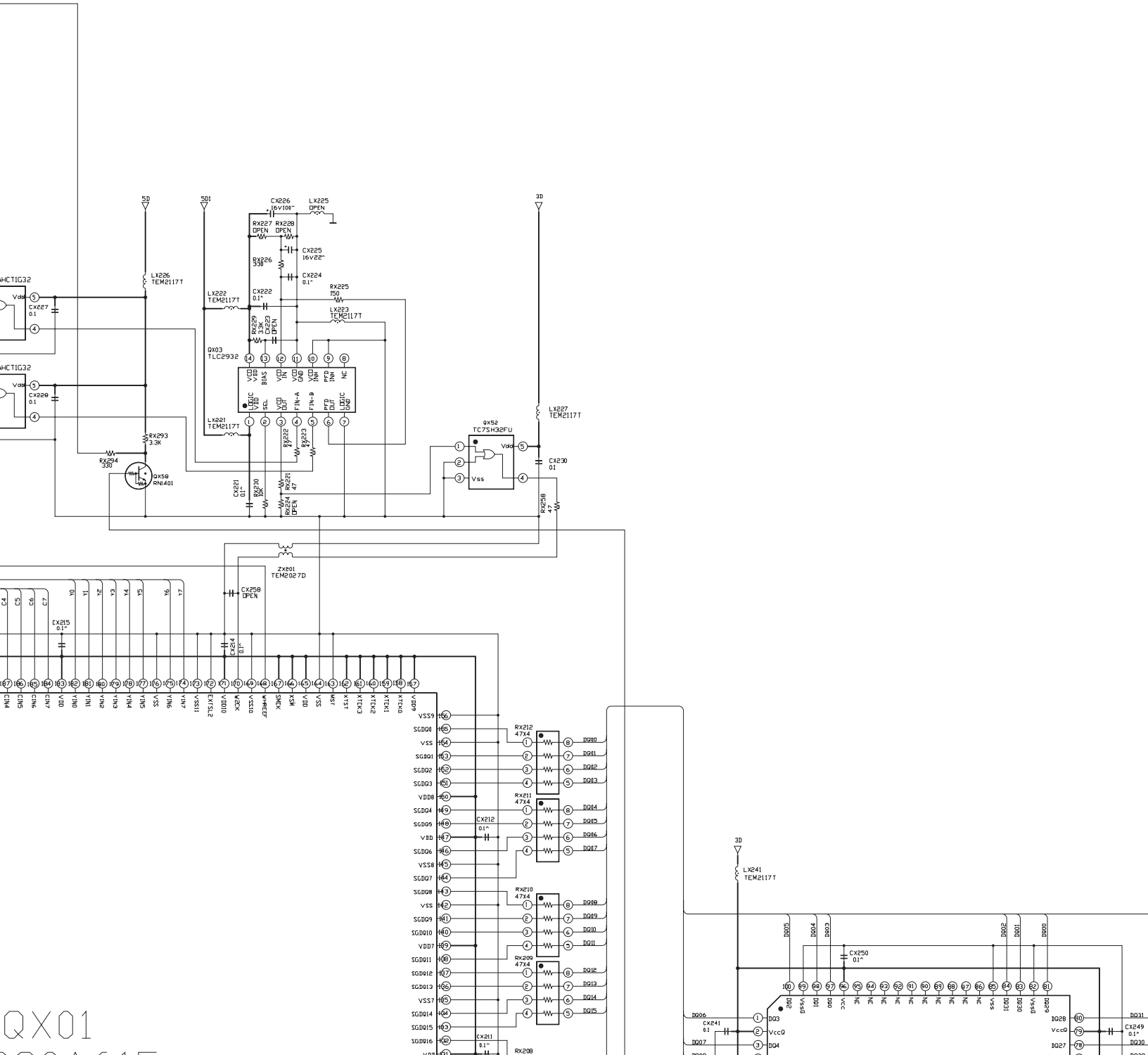
13 14 15 16



RMT/LDE/FRNT
DFS(Digital Frame Scan)
40WH08G/40WH08B


DFS~BOARD PB9512A
1
2
3
4
A
B
C
D
E
F
LX110 TEM2117T
QX28 TC7S66F
CX129 0.1
RX131 SHIMADA
RX129 OPEN
QX31 TC7S08F
RX130 560
CX130 0.1
RX131 1K
LX101 TEM2118T
LX103 TEM2117T
QX59 SN74AHC1G66HDCK
CX101 16V47^
CX102 16V NP10^
RX101 39K
RX102 15K
RX15 IMZ1
RX15 100
RX16 680
RX17 560
RX18 330
RX103 150
RX104 820
LX104 PL-56
CX104 0.1
CX106 CH33
CX109 0.1
CX105 CH150
CX107 CH120
RX105 OPEN
RX106 330
CX111 16V0.33^
OPEN CX110
QX16 IMZ1
RX19 100
CX108 0.1
RX107 820
ZX101 TEM2028AH
QX27 TC7S66F
CX160 0.1^
RX19 SHIM
QX22 IMZ1
RX143 39K
RX147 680
CX145 0.1
CX143 16V NP10^
RX141 100
RX142 330
RX146 330
RX144 15K
RX145 330
CX149 CH47
RX156 2.7K
CX153 OPEN
CX152 16V10^
RX150 100
LX143 PL-27
CX148 CH100
CX150 CH270
RX154 OPEN
CX151 0.1
RX155 1K
QX24 IMZ1
QX25 SN74AHC2G53HDCT
CX155 0.1
QX29 IMZ1
RX163 39K
RX167 680
CX162 16V NP10^
RX161 180
RX166 330
RX164 15K
RX165 330
CX169 CH47
RX176 2.7K
CX173 OPEN
CX172 16V10^
RX170 100
RX172 330
RX173 OPEN
LX163 PL-27
CX165 0.1
CX168 CH100
CX170 CH270
CX171 0.1
RX175 1K
QX31 IMZ1
4.65V 0.56V(p-p)
4.65V 0.46V(p-p)
4.65V 0.66V(p-p)
PX01B 15PIN
TO-SIGNAL
YIN
GND
UIN
GND
VIN
GND
YOUT
GND
UOUT
GND
VOUT
GND
+9V-1
CX412 CH22
RX412 100
CX411 CH22
RX410 100
CX410 CH22
RX408 100
CX409 CH22
RX406 100
CX408 CH22
RX404 100
CX407 CH22
RX402 100
ZX402 TEM3012N
ZX401 TEM3012N
CX404 0.1
CX404 16V470^
CX402
QX55 TA78L05F
IN GND OUT
CX434 16V47^
CX435 0.1
LX405 TEM2117T
LX404 TEM2117T
LX407 TEM2117T
9A
5A
5D1
QX34 TC7S66F
VSS
VDD
CX160 0.1^

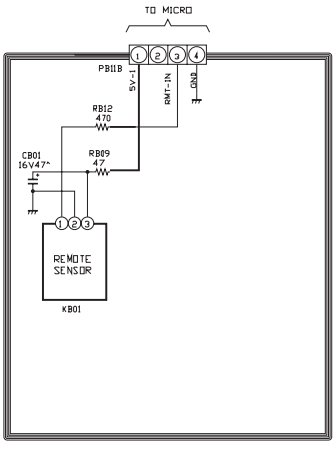

QX01
TC90A69F

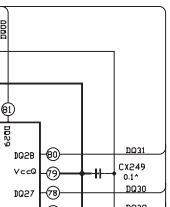

QX01
5D
50I
3D
CX226 16V10^
LX225 OPEN
RX227 OPEN
RX228 OPEN
CX225 16V22^
RX226 330
CX224 0.1^
LX226 TEM2117T
LX222 TEM2117T
CX222 0.1^
RX225 150
LX223 TEM2117T
RX229 3.3K
CX223 OPEN
QX03 TLC2932
LX227 TEM2117T
QX52 TC7SH32FU
CX227 0.1
CX220 0.1
RX293 3.3K
RX294 330
QX50 RN1401
LX221 TEM2117T
RX222 47
RX223 47
CX221 0.1^
RX230 10K
RX221 47
RX224 OPEN
CX230 0.1
RX258 47
ZX201 TEM2027D
CX258 OPEN
CX215 0.1^
CX214 0.1^
RX212 47X4
RX211 47X4
RX210 47X4
RX209 47X4
CX212 0.1^
CX211 0.1^
RX208
LX241 TEM2117T
CX250 0.1^
CX241 0.1
CX249 0.1^
DQ00
DQ01
DQ02
DQ03
DQ04
DQ05
DQ06
DQ07
DQ08
DQ09
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
DQ16
DQ17
DQ18
DQ19
DQ20
DQ21
DQ22
DQ23
DQ24
DQ25
DQ26
DQ27
DQ28
DQ29
DQ30
DQ31

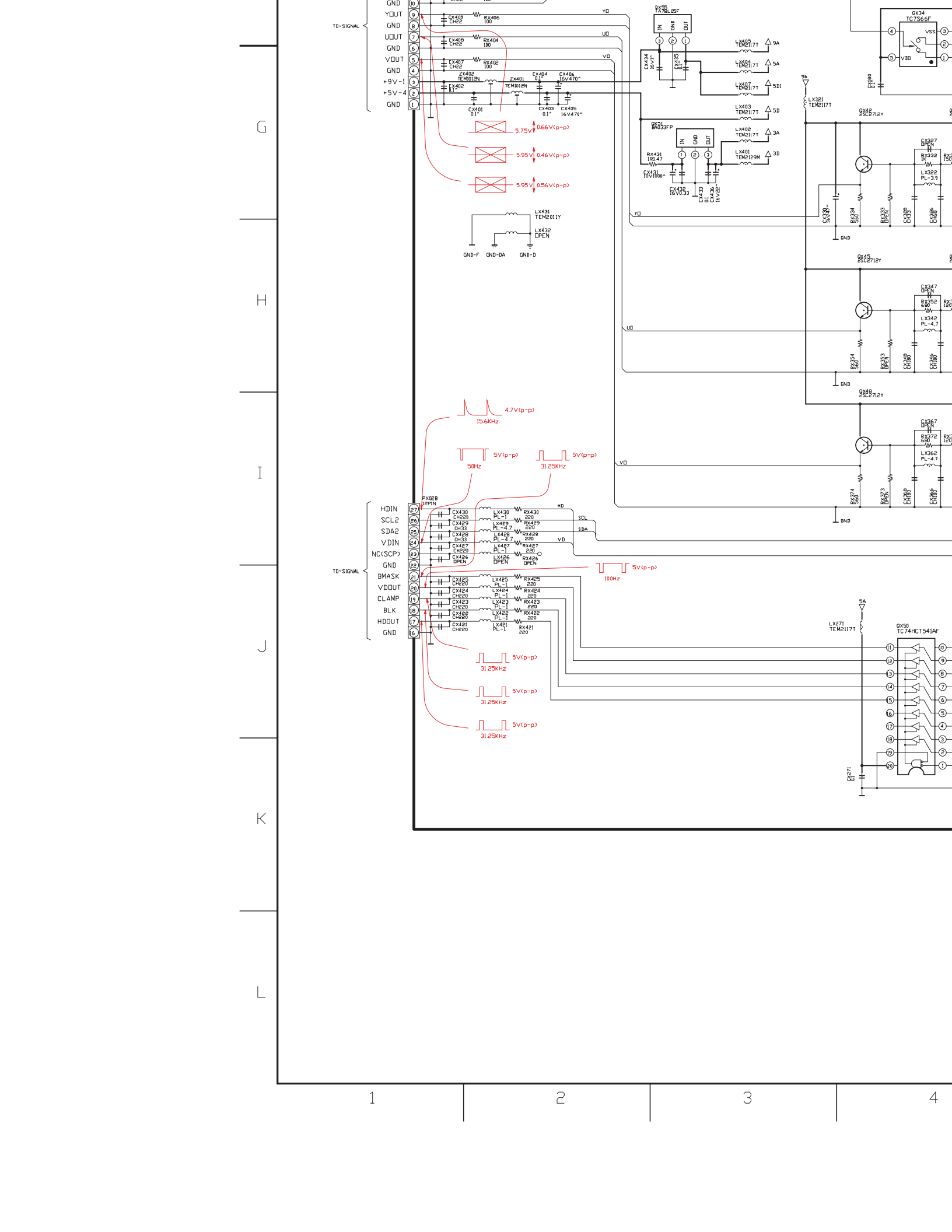
13 14 15 16

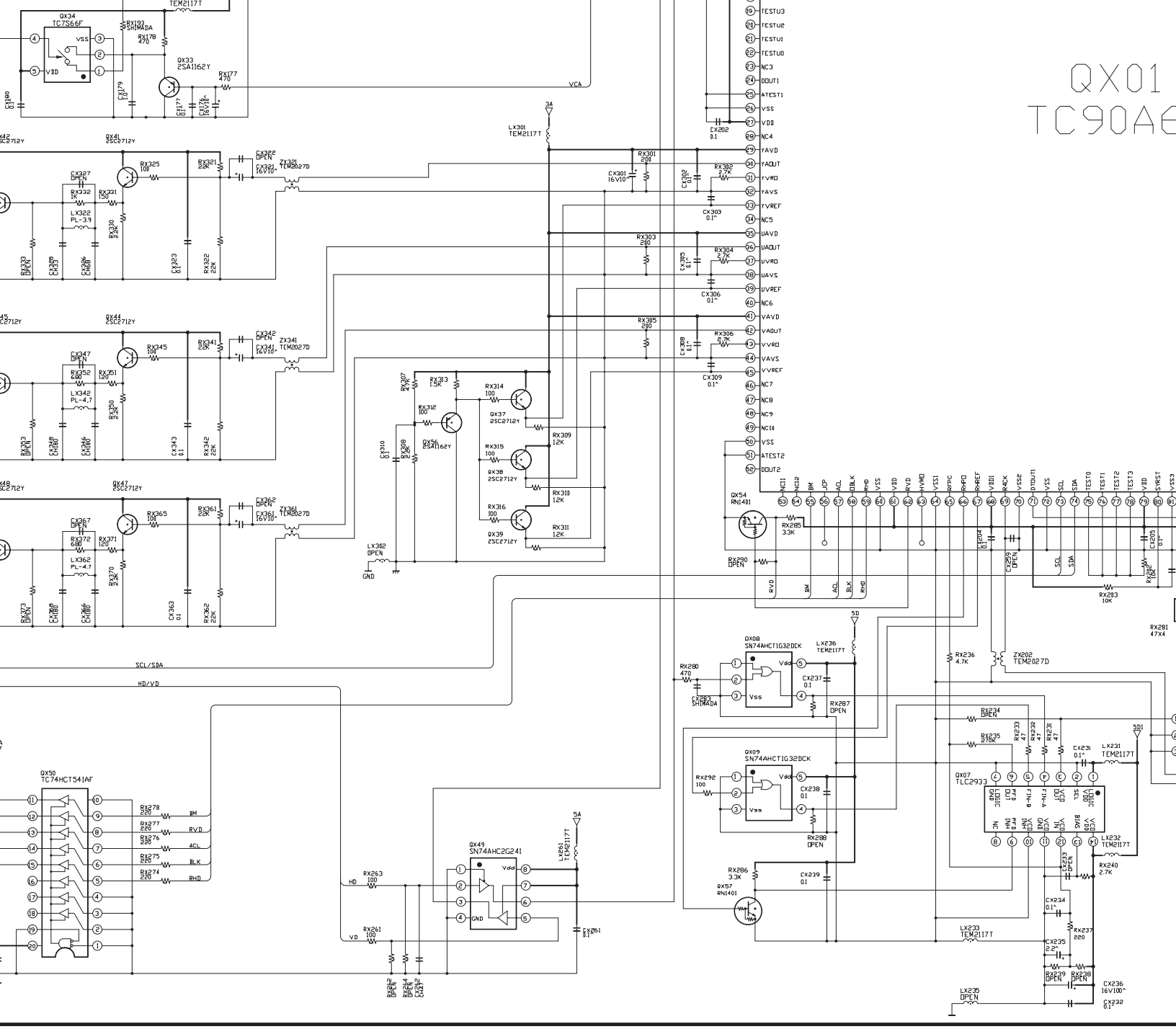
A B C D E F

U911B RMT PB9406A-3






TO-SIGNAL
GND
YOUT
GND
UOUT
GND
VOUT
GND
+9V-1
+5V-4
GND
RX406 100
RX404 180
RX402 100
CX409 CH22
CX408 CH22
CX407 CH22
CX402 0.1
ZX402 TEM1012N
ZX401 TEM1012N
CX401 0.1
CX404 0.1
CX406 16V470
CX403 0.1
CX405 16V470
5.75V 0.66V(p-p)
5.95V 0.46V(p-p)
5.95V 0.56V(p-p)
LX431 TEM2011Y
LX432 OPEN
GND-F
GND-DA
GND-D
RX55 TA78L05F
IN
GND
OUT
CX434 16V1
CX435 0.1
RX431 1R0.47
CX431 16V100
CX432 16V0.33
CX433 0.1
CX436 16V22
LX405 TEM2117T
LX404 TEM2117T
LX407 TEM2117T
LX403 TEM2117T
LX402 TEM2117T
LX401 TEM2129M
9A
5A
5D1
5D
3A
3D
RX31 BA033FP
YO
UO
VO
GND
LX321 TEM2117T
9A
QX46 2SC2712Y
CX327 OPEN
RX332 1K
LX322 PL-3.9
CX330 16V47
RX334 560
RX327 OPEN
CX328 CH33
CX326 CH680
QX45 2SC2712Y
CX347 OPEN
RX352 680
LX342 PL-4.7
RX354 560
RX353 OPEN
CX348 CH680
CX346 CH680
QX48 2SC2712Y
CX367 OPEN
RX372 680
LX362 PL-4.7
RX374 560
RX373 OPEN
CX368 CH680
CX366 CH680
4.7V(p-p)
15.6KHz
5V(p-p)
50Hz
5V(p-p)
31.25KHz
5V(p-p)
100Hz
PX928 12PIN
HDIN
SCL2
SDA2
VDIN
NC(SCP)
GND
BMASK
VDOUT
CLAMP
BLK
HDOUT
GND
CX430 CH220
CX429 CH33
CX428 CH33
CX427 CH220
CX426 OPEN
CX425 CH220
CX424 CH220
CX423 CH220
CX422 CH220
CX421 CH220
LX430 PL-1
LX429 PL-4.7
LX428 PL-4.7
LX427 PL-1
LX426 OPEN
LX425 PL-1
LX424 PL-1
LX423 PL-1
LX422 PL-1
LX421 PL-1
RX430 220
RX429 220
RX428 220
RX427 220
RX426 OPEN
RX425 220
RX424 220
RX423 220
RX422 220
RX421 220
HD
SCL
SDA
VD
5V(p-p)
31.25KHz
5V(p-p)
31.25KHz
5V(p-p)
31.25KHz
5A
LX271 TEM2117T
QX50 TC74HCT541AF
CX271 0.1
QX34 TC7S66F
VSS
VDD
CX340 0.1


QX01
TC90A6
QX34
TC7S66F
QX33
2SA1162Y
QX41
2SC2712Y
QX44
2SC2712Y
QX47
2SC2712Y
QX48
2SC2712Y
QX37
2SC2712Y
QX38
2SC2712Y
QX39
2SC2712Y
QX56
2SA1162Y
QX54
RN1401
QX57
RN1401
QX08
SN74AHCT1G32DCK
QX09
SN74AHCT1G32DCK
QX07
TLC2933
QX49
SN74AHC2G241
QX50
TC74HCT541AF
VCA
SCL/SDA
HD/VD
BM
RVD
ACL
BLK
RHD
GND

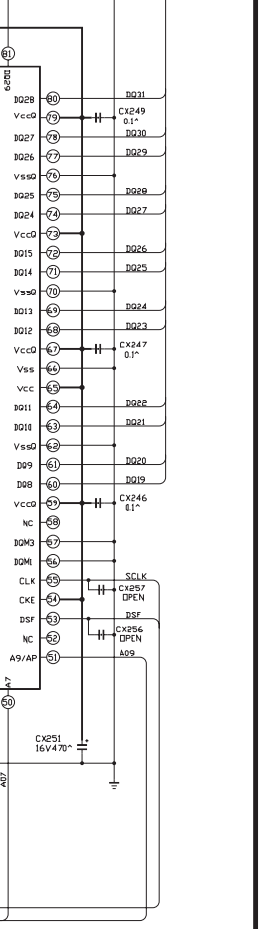
QX01
C90A61F

QX02
EM6363270-8
OR
MS82V16520-8
OR
MB81G163222

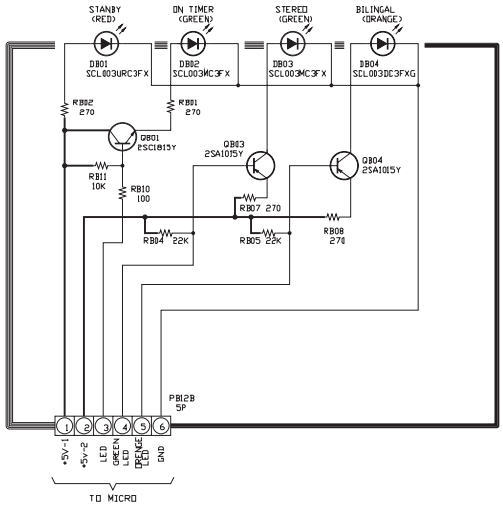
U911A FRONT PB

UNIT SN.	
DFS	SN.23784880
	SN.
	SN.
	SN.

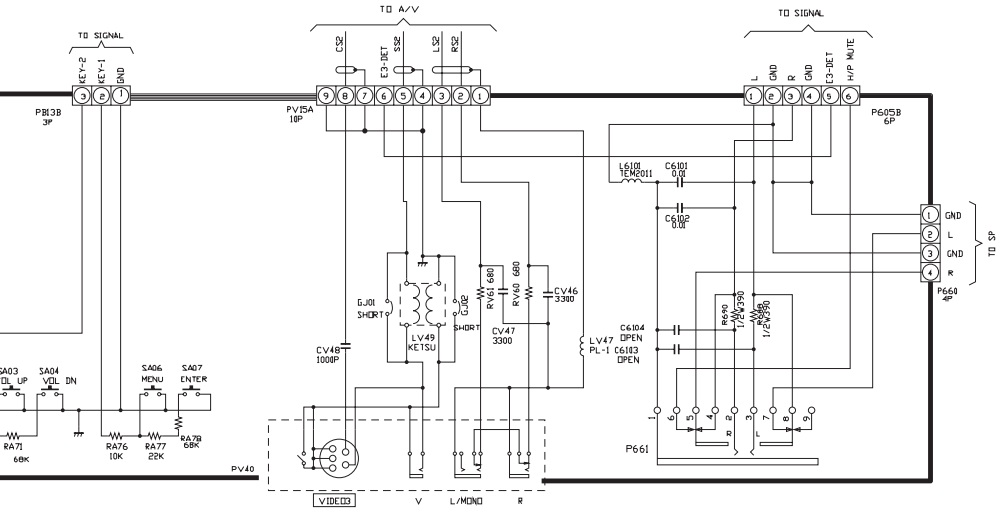
COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.



U911C LED PB9406A-2

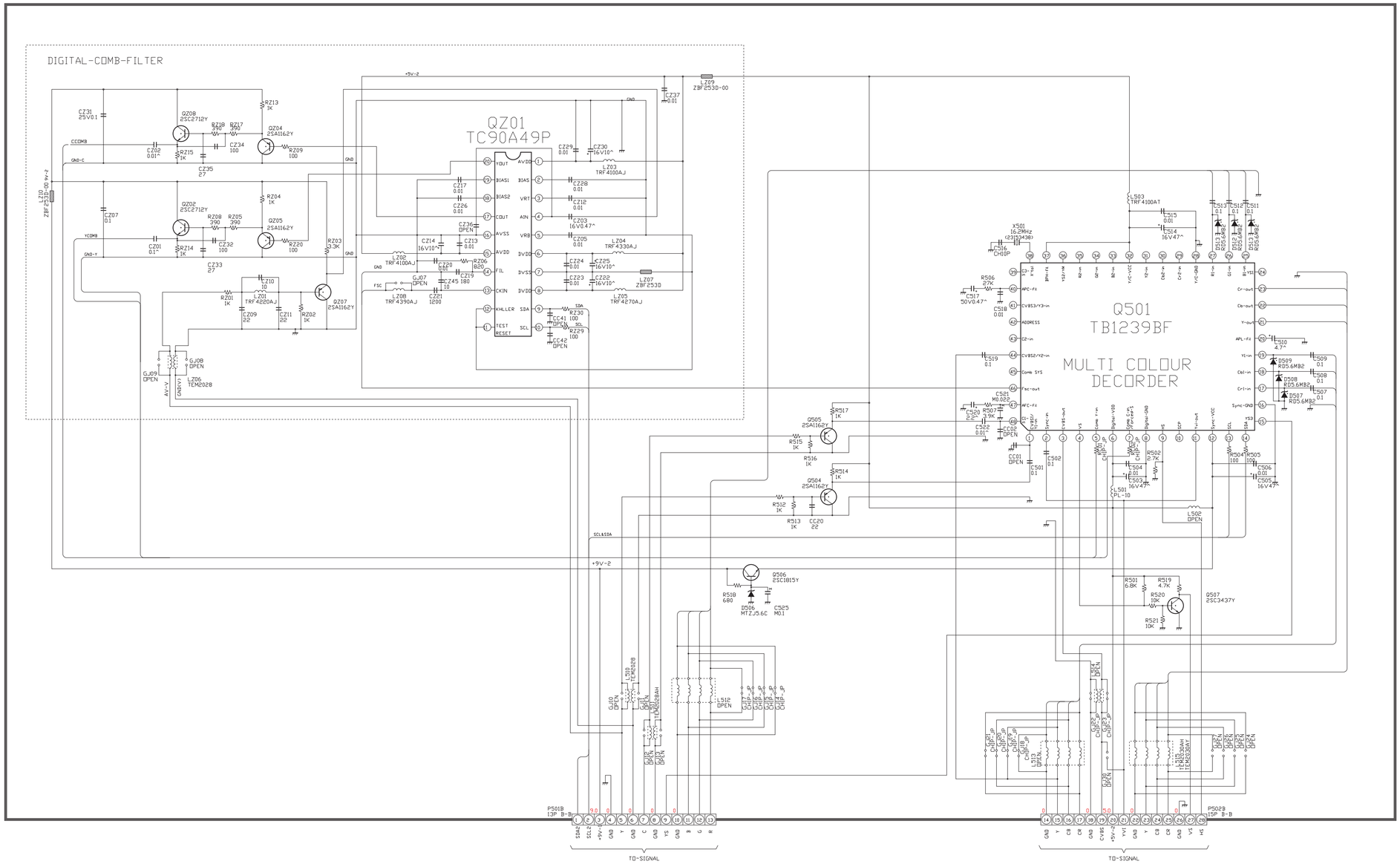


ONT PB9406A-1



RMT/LDE/FRNT
DFS(Digital Frame Scan)
40WH08G/40WH08B

U103 D-COMB&MCD BOARD PB 9510A



UNIT SN.	
MCD	SN:2384878
	SN:
	SN:
	SN:

COPPER SIDE PARTS	
	SN:
	SN:
	SN:
	SN:
	SN:

D-COMB&MCD PART
40WH08G
40WH08B

A

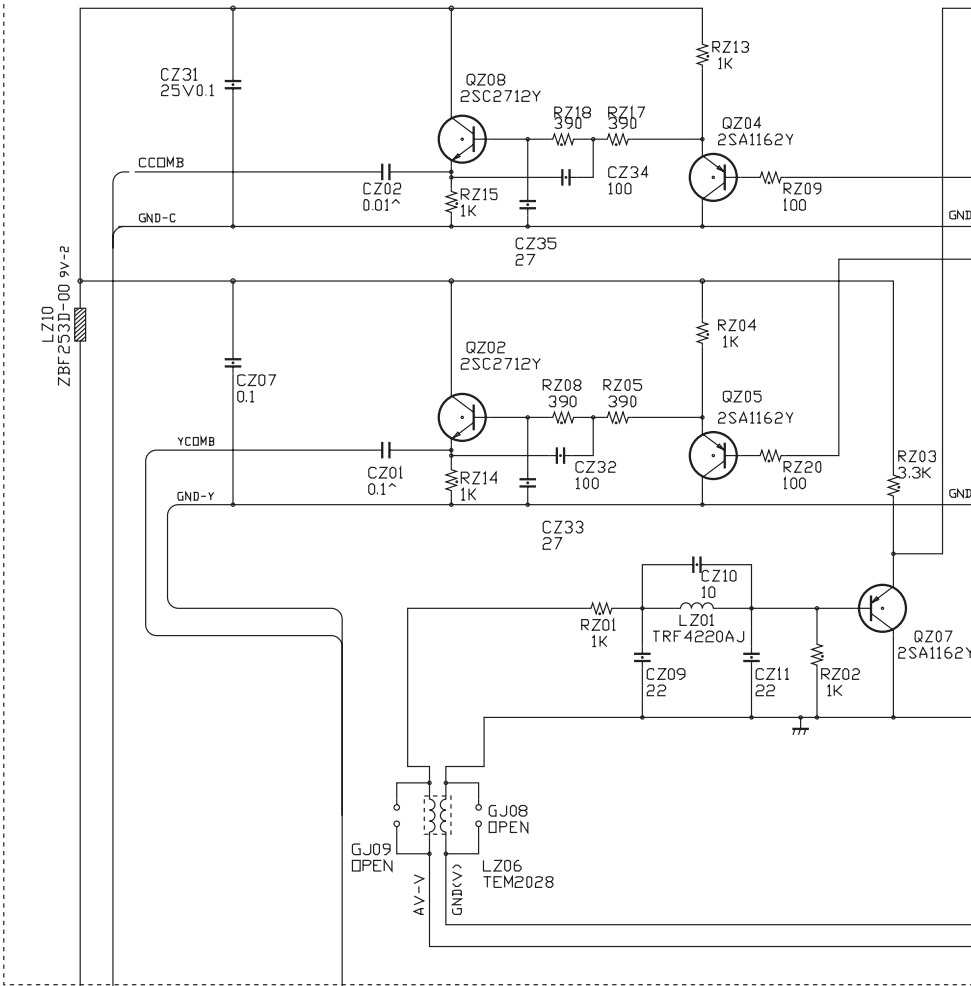
B

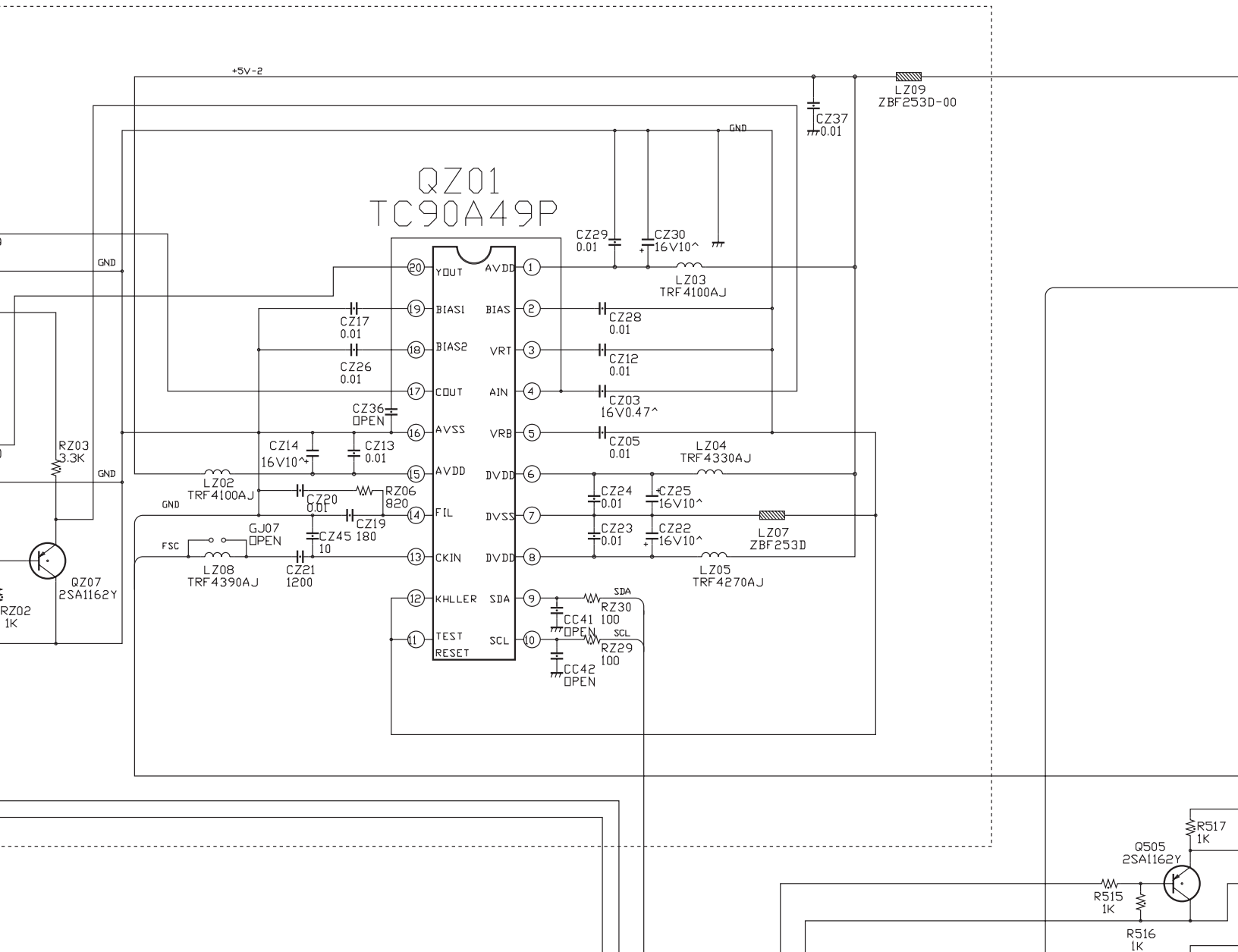
C

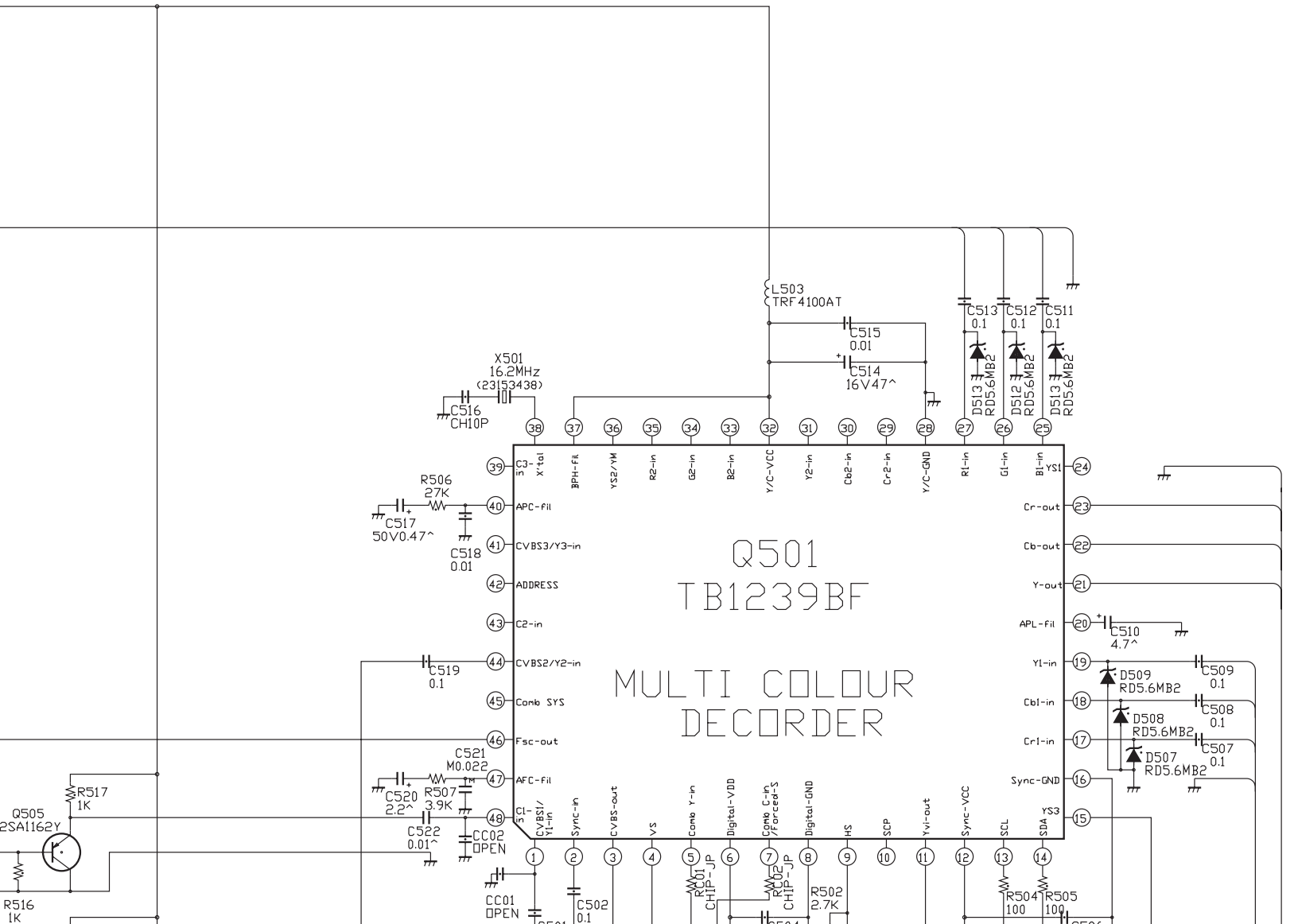
D

U103 D-COMB&MCD BOARD PB 9

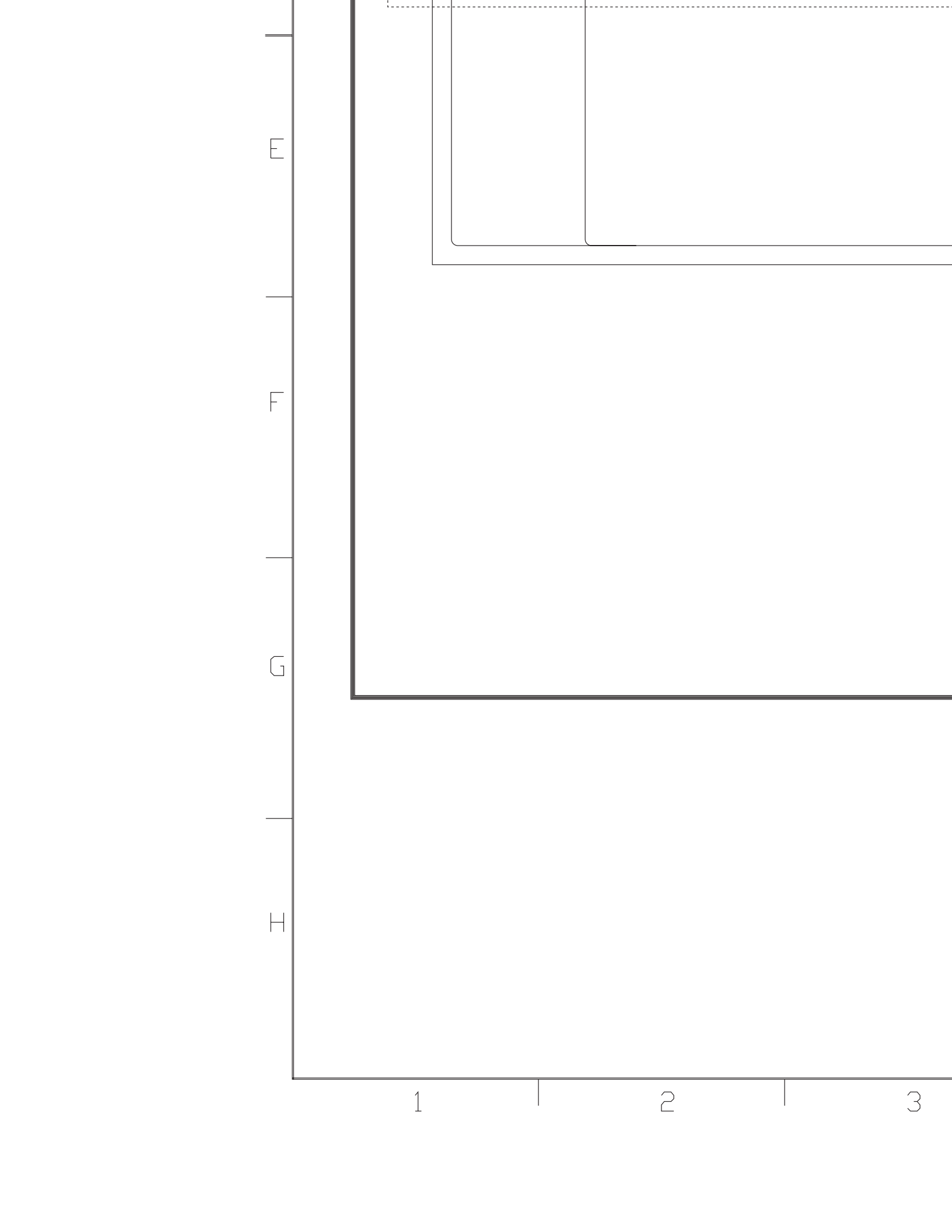
DIGITAL-COMB-FILTER

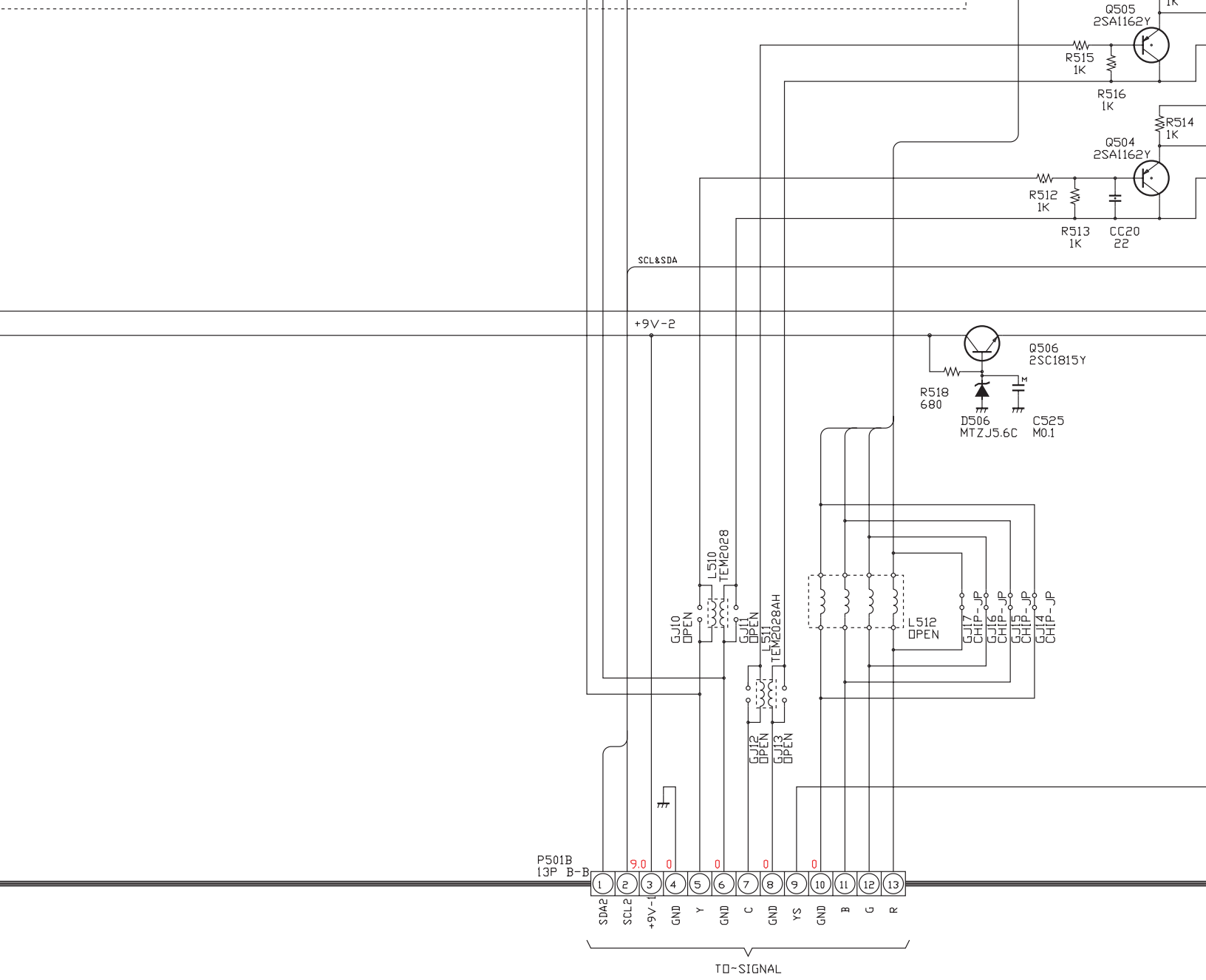


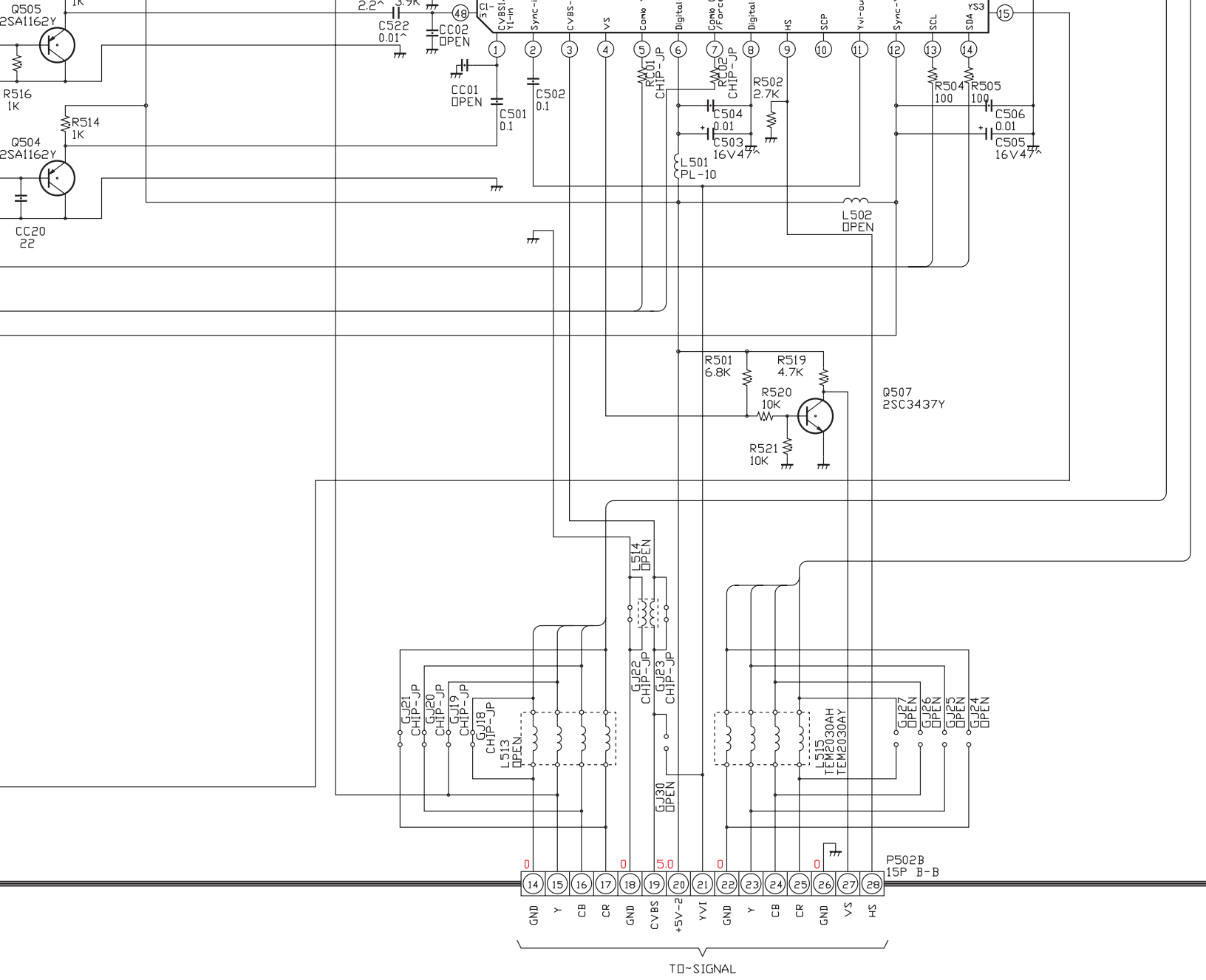

+5V-2
LZ09
ZBF253D-00
CZ37
0.01
GND
QZ01
TC90A49P
CZ29
0.01
CZ30
16V10^
LZ03
TRF4100AJ
CZ17
0.01
CZ28
0.01
CZ26
0.01
CZ12
0.01
CZ36
OPEN
CZ03
16V0.47^
CZ14
16V10^
CZ13
0.01
CZ05
0.01
LZ04
TRF4330AJ
LZ02
TRF4100AJ
CZ20
0.01
RZ06
820
CZ24
0.01
CZ25
16V10^
CZ19
GJ07
OPEN
CZ45 180
10
CZ23
0.01
CZ22
16V10^
LZ07
ZBF253D
FSC
LZ08
TRF4390AJ
CZ21
1200
LZ05
TRF4270AJ
RZ03
3.3K
QZ07
2SA1162Y
RZ02
1K
YOUT
BIAS1
BIAS2
COUT
AVSS
AVDD
FIL
CKIN
KHLLER
TEST
RESET
AVDD
BIAS
VRT
AIN
VRB
DVDD
DVSS
DVDD
SDA
SCL
SDA
RZ30
100
CC41
OPEN
SCL
RZ29
100
CC42
OPEN
R517
1K
Q505
2SA1162Y
R515
1K
R516
1K


Q501
TB1239BF
MULTI COLOUR
DECORDER
L503
TRF4100AT
X501
16.2MHz
(2315343B)
C516
CH10P
C515
0.01
C514
16V47^
C513
0.1
C512
0.1
C511
0.1
D513
RD5.6MB2
D512
RD5.6MB2
D513
RD5.6MB2
R506
27K
C517
50V0.47^
C518
0.01
C519
0.1
C521
M0.022
C520
2.2^
R507
3.9K
C522
0.01^
CC02
OPEN
CC01
OPEN
C502
0.1
R501
CHIP-JP
R502
CHIP-JP
R502
2.7K
R504
100
R505
100
R517
1K
Q505
2SA1162Y
R516
1K
C510
4.7^
D509
RD5.6MB2
C509
0.1
D508
RD5.6MB2
C508
0.1
D507
RD5.6MB2
C507
0.1
C3-
X'tal
BPH-fil
YS2/YM
R2-in
G2-in
B2-in
Y/C-VCC
Y2-in
Cb2-in
Cr2-in
Y/C-GND
R1-in
G1-in
B1-in
YS1
APC-fil
CVBS3/Y3-in
ADDRESS
C2-in
CVBS2/Y2-in
Comb SYS
Fsc-out
AFC-fil
C1-
CVBS1/
Y1-in
Sync-in
CVBS-out
VS
Comb Y-in
Digital-VDD
Comb C-in
/Forced-S
Digital-GND
HS
SCP
Yvi-out
Sync-VCC
SCL
SDA
YS3
Cr-out
Cb-out
Y-out
APL-fil
Y1-in
Cb1-in
Cr1-in
Sync-GND

10
11
12
A
B
C
D
C509
0.1
C508
0.1
C507
0.1


E
F
G
H
1
2
3


Q505
2SA1162Y
R515
1K
R516
1K
R514
1K
Q504
2SA1162Y
R512
1K
R513
1K
CC20
22
SCL&SDA
+9V-2
Q506
2SC1815Y
R518
680
D506
MTZJ5.6C
C525
M0.1
L510
TEM2028
GJ10
OPEN
GJ11
OPEN
L511
TEM2028AH
GJ12
OPEN
GJ13
OPEN
L512
OPEN
GJ7
CHIP_JP
GJ6
CHIP_JP
GJ5
CHIP_JP
GJ4
CHIP_JP
P501B
13P B-B
9.0
0
0
0
0
1
2
3
4
5
6
7
8
9
10
11
12
13
SDA2
SCL2
+9V-1
GND
Y
GND
C
GND
YS
GND
B
G
R
TO~SIGNAL



UNIT SN.	
MCD	SN.23784878
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

E

F

G

H

D-COMB&MCD PART

40WH08G

40WH08B

10 11 12

U104AEPG-TEXT(Ver2)B2511A

QF10
MSM5116400D-60SJ
or
HY5117404CJ-60-TR
(4M×4bit DRAM)
SOJ-24/26

QF01
SDA5275-3
(MEGA TEXT)
PLCC-68

QF02
SAB-C161RI-L16A
or
SAB-C161PI-L16A
(SUB-^COM)
MQFP-100

QF03
MX29F040QC-70-3
(512K×8bit FLASH)
PLCC-32

QF04
Am29F040B-70JC
or
MBM29F040C-70PD
or
MX29F040QC-70
(512K×8bit FLASH)
PLCC-32

QF05
AT24C08N-10SC
or
S-24C08AFJA-TB-01
(8Kbit EEPROM)
SOP-8

QF11
PST9146NL

PF01A
15P B/B

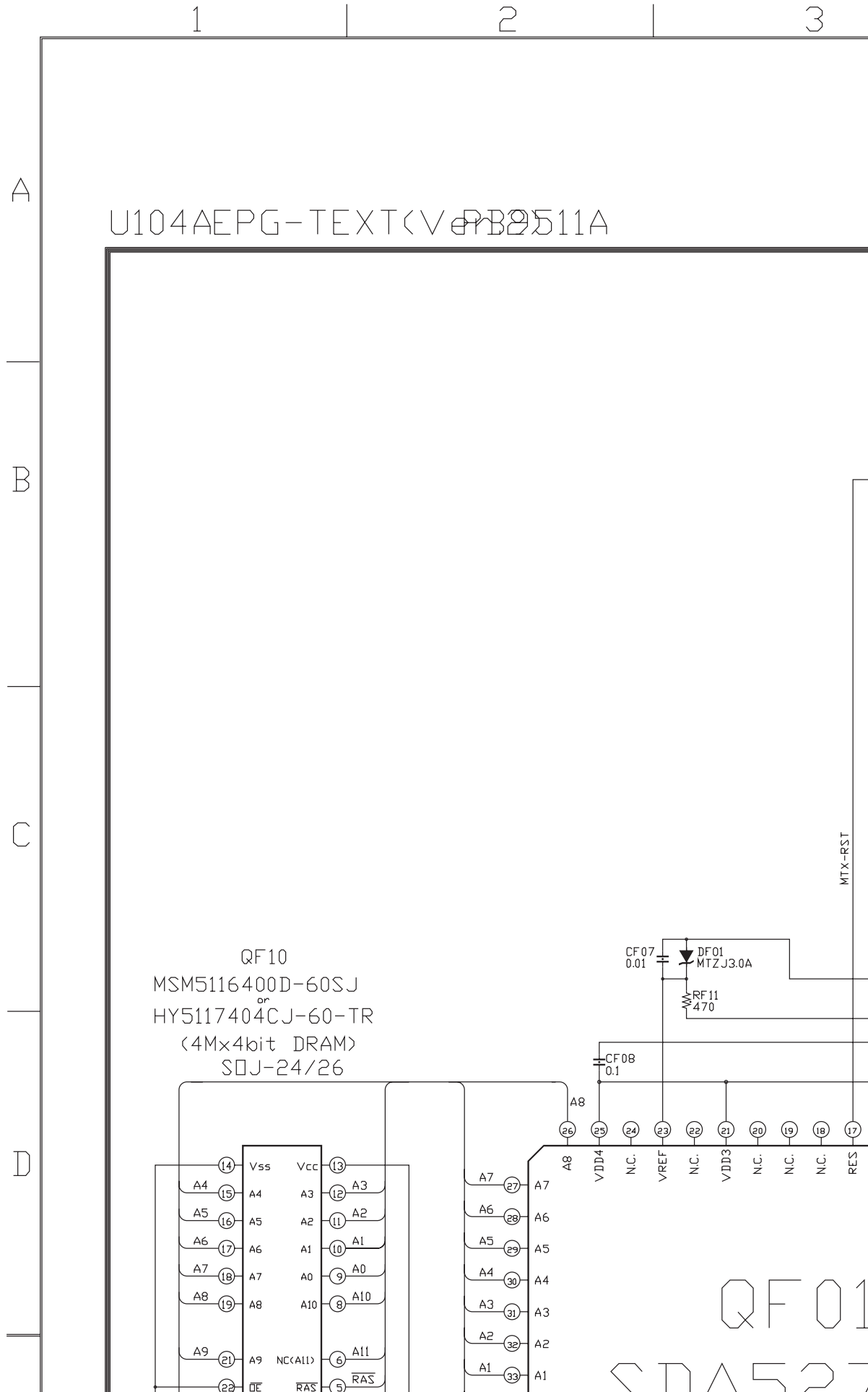
TO SHIELD CASE

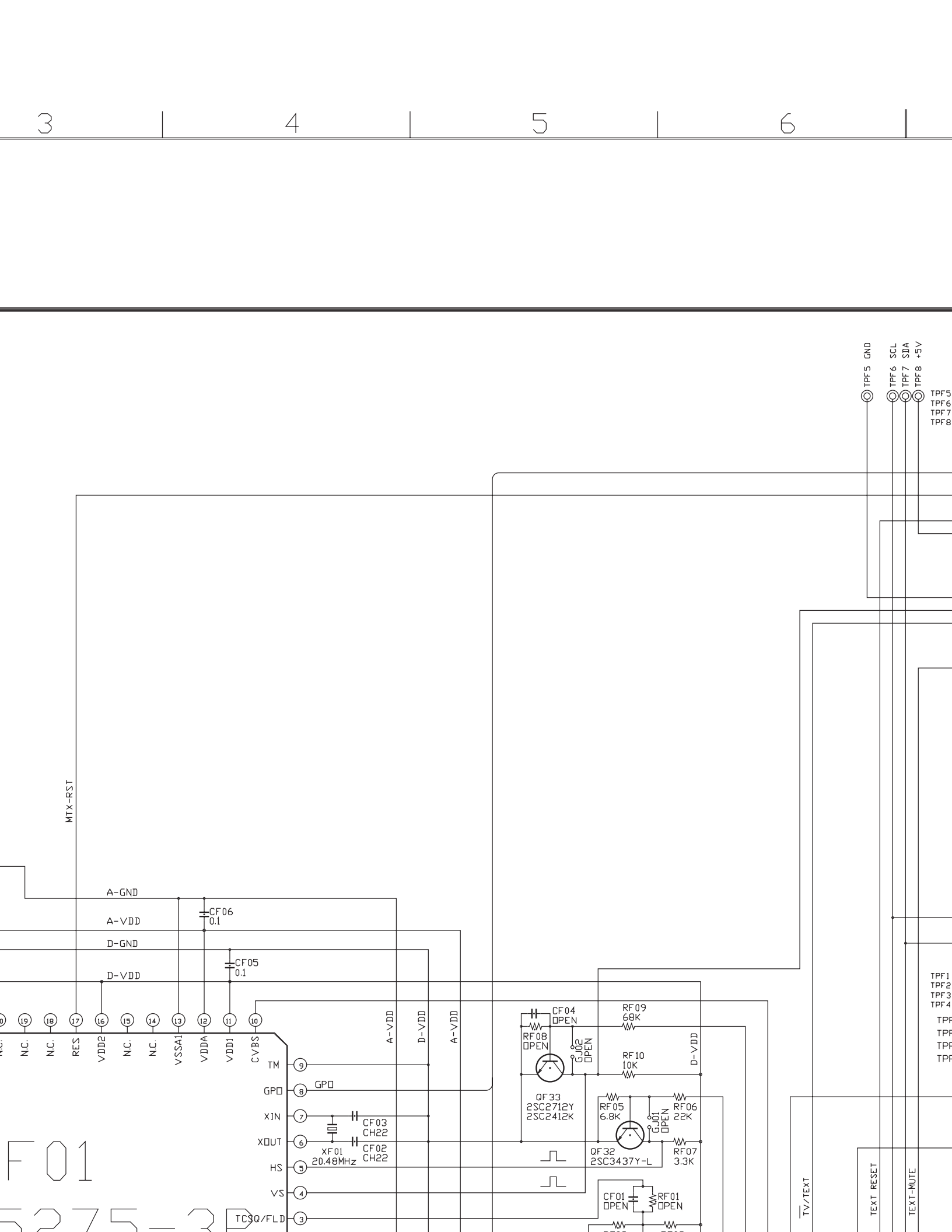
TO-SIGNAL

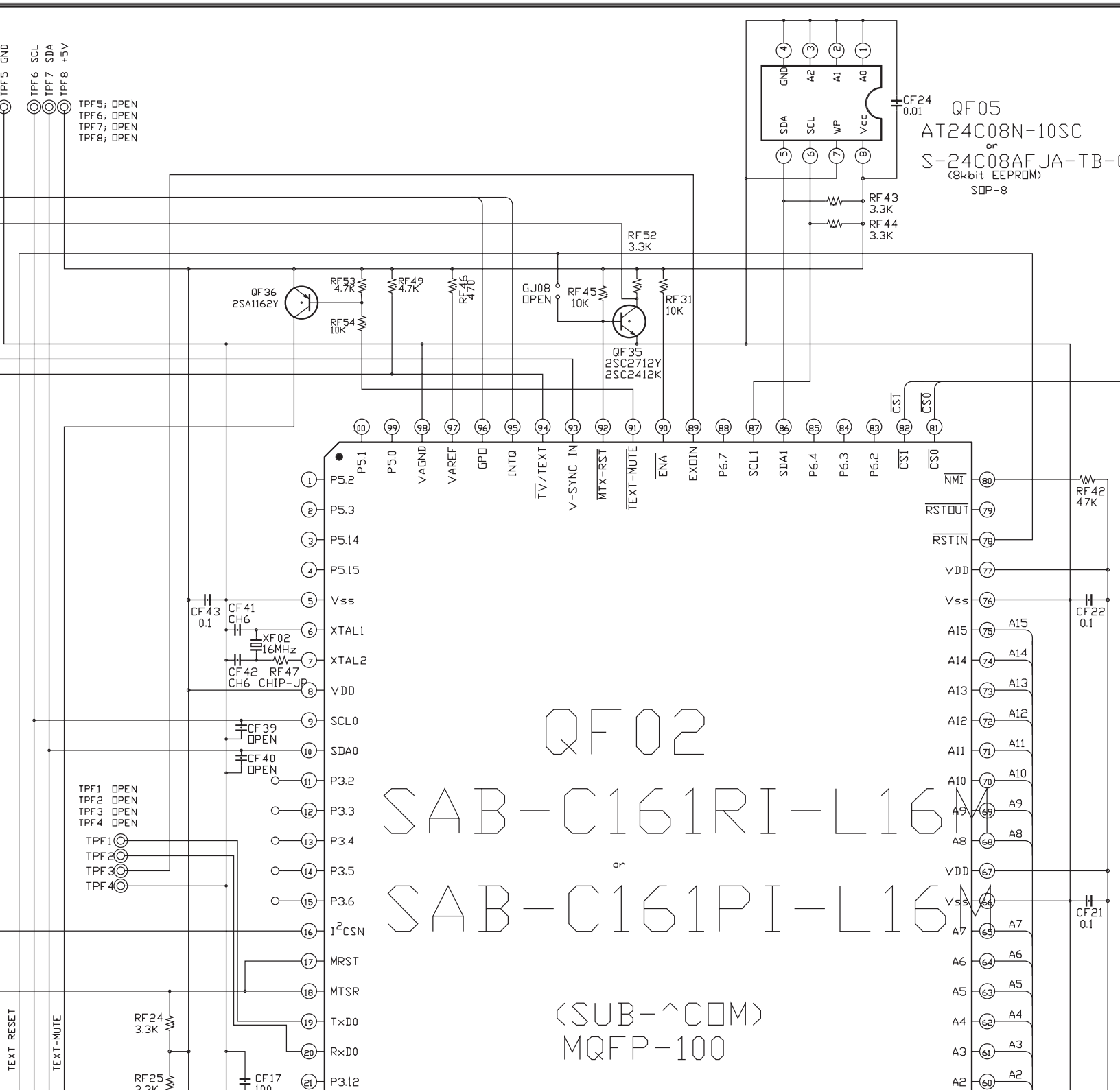
UNIT SN	
EPG	SN.2384879
	SN.
	SN.
	SN.

COPPER SIDE PARTS
SN.
SN.
SN.
SN.
SN.

EPG-TEXT(Ver.2)
40WH08G
40WH08B 7/7


1
2
3
A
B
C
D
U104AEPG-TEXT(V
511A
QF10
MSM5116400D-60SJ
or
HY5117404CJ-60-TR
(4Mx4bit DRAM)
SOJ-24/26
CF07
0.01
DF01
MTZJ3.0A
RF11
470
CF08
0.1
MTX-RST
A8
VDD4
N.C.
VREF
N.C.
VDD3
N.C.
N.C.
N.C.
RES
Vss
Vcc
A4
A3
A5
A2
A6
A1
A7
A0
A8
A10
A9
NC(A11)
A11
OE
RAS
RAS
A7
A6
A5
A4
A3
A2
A1
QF01
SDA52


3
4
5
6
TPF5 GND
TPF6 SCL
TPF7 SDA
TPF8 +5V
MTX-RST
A-GND
A-VDD
D-GND
D-VDD
CF06 0.1
CF05 0.1
N.C.
N.C.
RES
VDD2
N.C.
N.C.
VSSA1
VDDA
VDD1
CVBS
TM
GP□
XIN
X□UT
HS
VS
TCSQ/FLD
XF01 20.48MHz
CF03 CH22
CF02 CH22
CF04 □PEN
RF08 □PEN
GJ02 □PEN
RF09 68K
RF10 10K
QF33 2SC2712Y 2SC2412K
RF05 6.8K
GJ01 □PEN
RF06 22K
QF32 2SC3437Y-L
RF07 3.3K
CF01 □PEN
RF01 □PEN
TV/TEXT
TEXT RESET
TEXT-MUTE
TPF1
TPF2
TPF3
TPF4
F01
5275-3


TPF5 GND
TPF6 SCL
TPF7 SDA
TPF8 +5V
TPF5; OPEN
TPF6; OPEN
TPF7; OPEN
TPF8; OPEN
QF05
AT24C08N-10SC
or
S-24C08AFJA-TB-
(8kbit EEPROM)
SOP-8
GND
A2
A1
A0
SDA
SCL
WP
Vcc
CF24
0.01
RF43
3.3K
RF44
3.3K
RF52
3.3K
QF36
2SA1162Y
RF53
4.7K
RF54
10K
RF49
4.7K
RF46
470
GJ08
OPEN
RF45
10K
RF31
10K
QF35
2SC2712Y
2SC2412K
P5.1
P5.0
VAGND
VAREF
GPO
INTO
TV/TEXT
V-SYNC IN
MTX-RST
TEXT-MUTE
ENA
EXOIN
P6.7
SCL1
SDA1
P6.4
P6.3
P6.2
CS1
CS0
P5.2
P5.3
P5.14
P5.15
Vss
XTAL1
XTAL2
VDD
SCL0
SDA0
P3.2
P3.3
P3.4
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P3.6
I2CSN
MRST
MTSR
TxD0
RxD0
P3.12
NMI
RSTOUT
RSTIN
VDD
Vss
A15
A14
A13
A12
A11
A10
A9
A8
VDD
Vss
A7
A6
A5
A4
A3
A2
CF43
0.1
CF41
CH6
XF02
16MHz
CF42
CH6
RF47
CHIP-JP
CF39
OPEN
CF40
OPEN
RF42
47K
CF22
0.1
CF21
0.1
TPF1 OPEN
TPF2 OPEN
TPF3 OPEN
TPF4 OPEN
TPF1
TPF2
TPF3
TPF4
QF02
SAB-C161RI-L16
or
SAB-C161PI-L16
(SUB-^COM)
MQFP-100
RF24
3.3K
RF25
3.3K
CF17
100
TEXT RESET
TEXT-MUTE

A

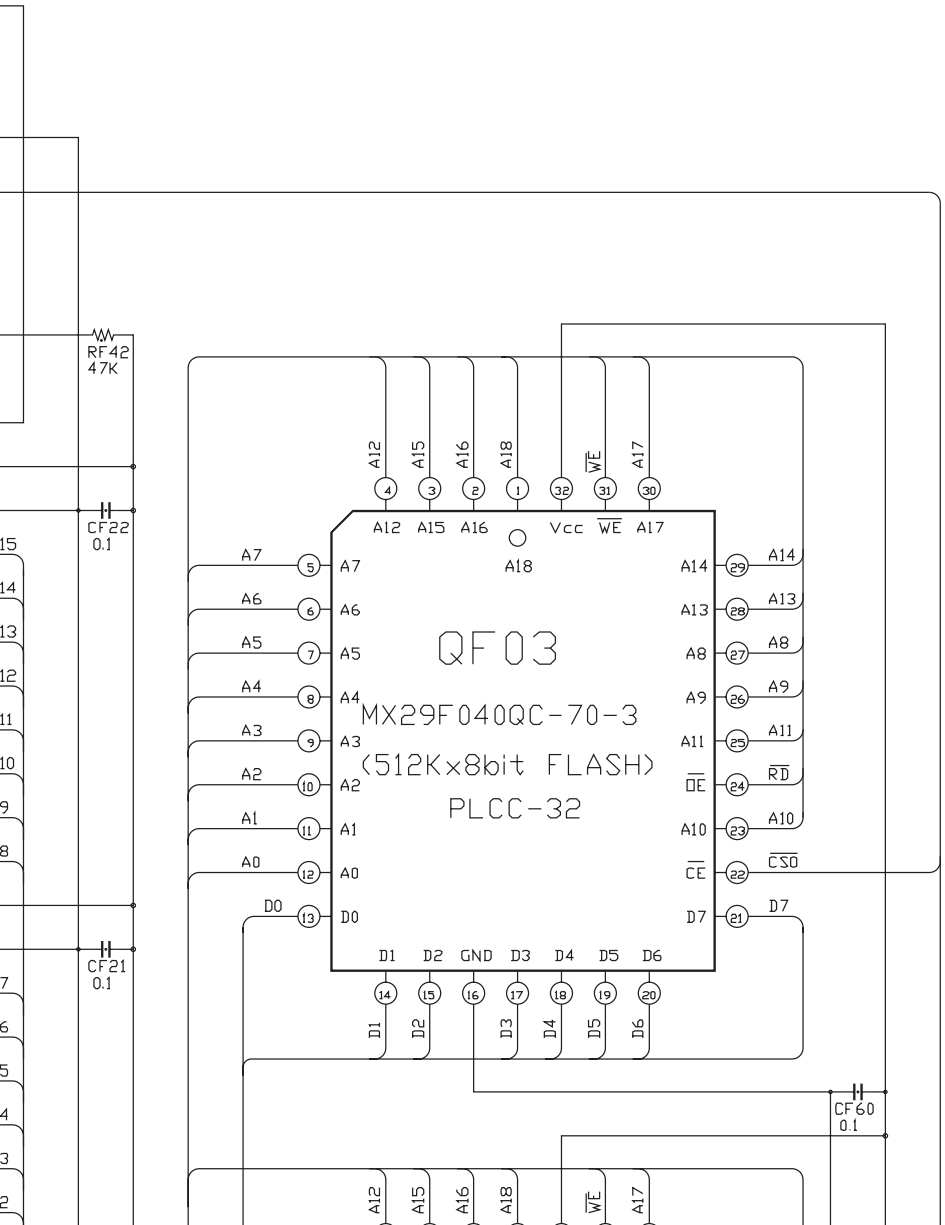
B

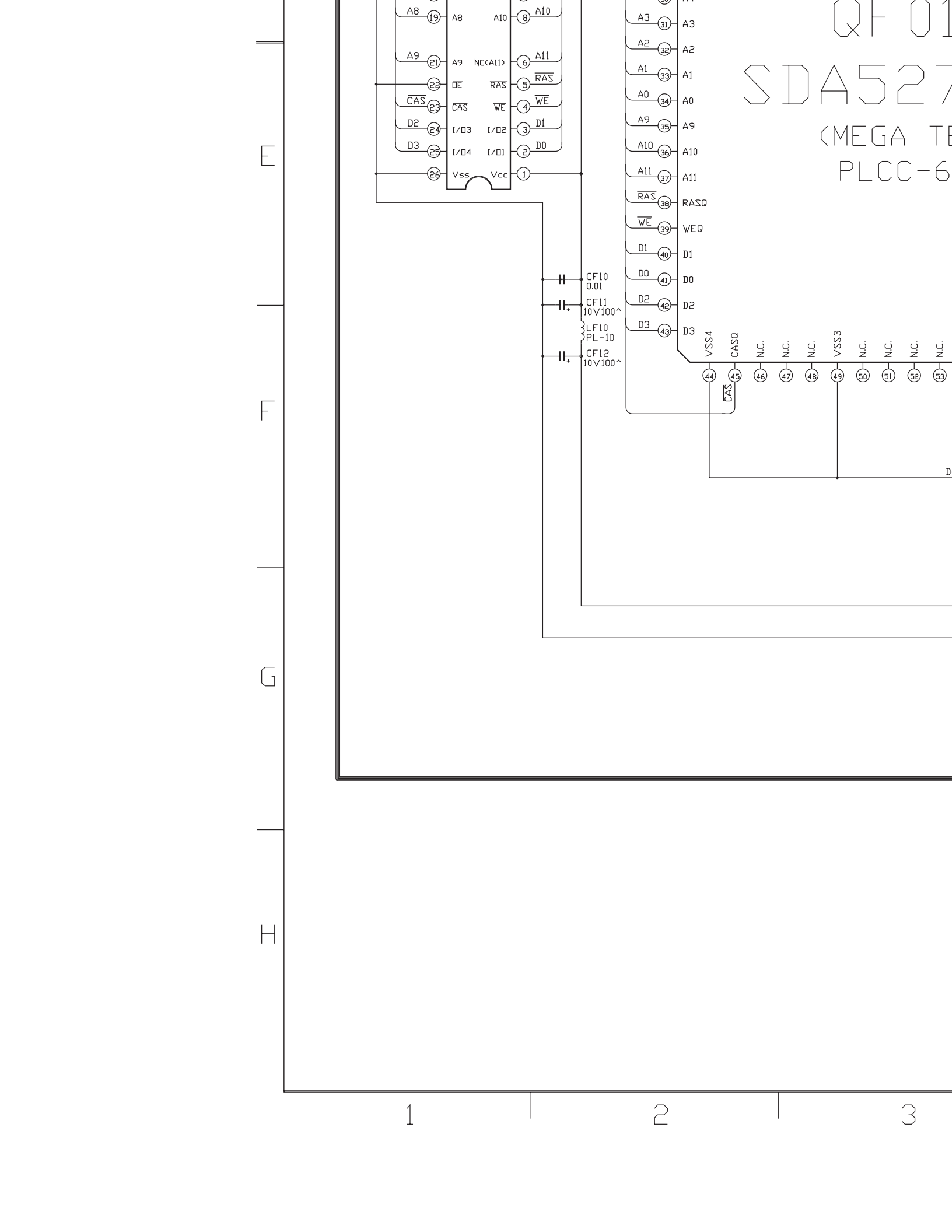
C

D

N-10SC

AF JA-TB-01
ROM)

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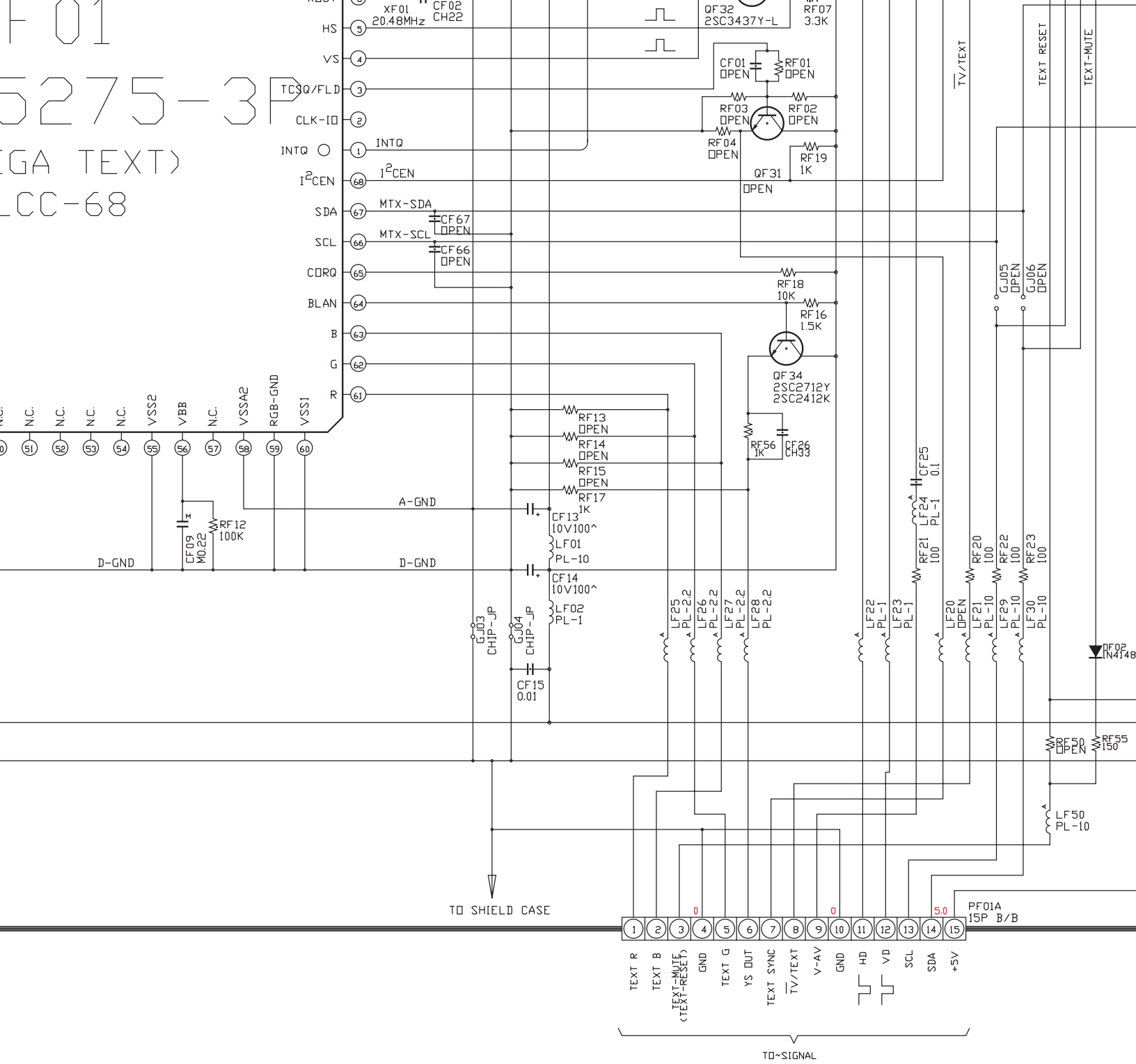
SDA527
(MEGA TE
PLCC-6
A8 19 A8
A9 21 A9
22 OE
CAS 23 CAS
D2 24 I/O3
D3 25 I/O4
26 Vss
A10 8 A10
NC(A11) 6 A11
RAS 5 RAS
WE 4 WE
I/O2 3 D1
I/O1 2 D0
Vcc 1
A3 31 A3
A2 32 A2
A1 33 A1
A0 34 A0
A9 35 A9
A10 36 A10
A11 37 A11
RAS 38 RASQ
WE 39 WEQ
D1 40 D1
D0 41 D0
D2 42 D2
D3 43 D3
CF10 0.01
CF11 10V100^
LF10 PL-10
CF12 10V100^
VSS4 44
CASQ 45
N.C. 46
N.C. 47
N.C. 48
VSS3 49
N.C. 50
N.C. 51
N.C. 52
N.C. 53
CAS
E
F
G
H
1
2
3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5275-3P
(GA TEXT)
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XF01 20.48MHz
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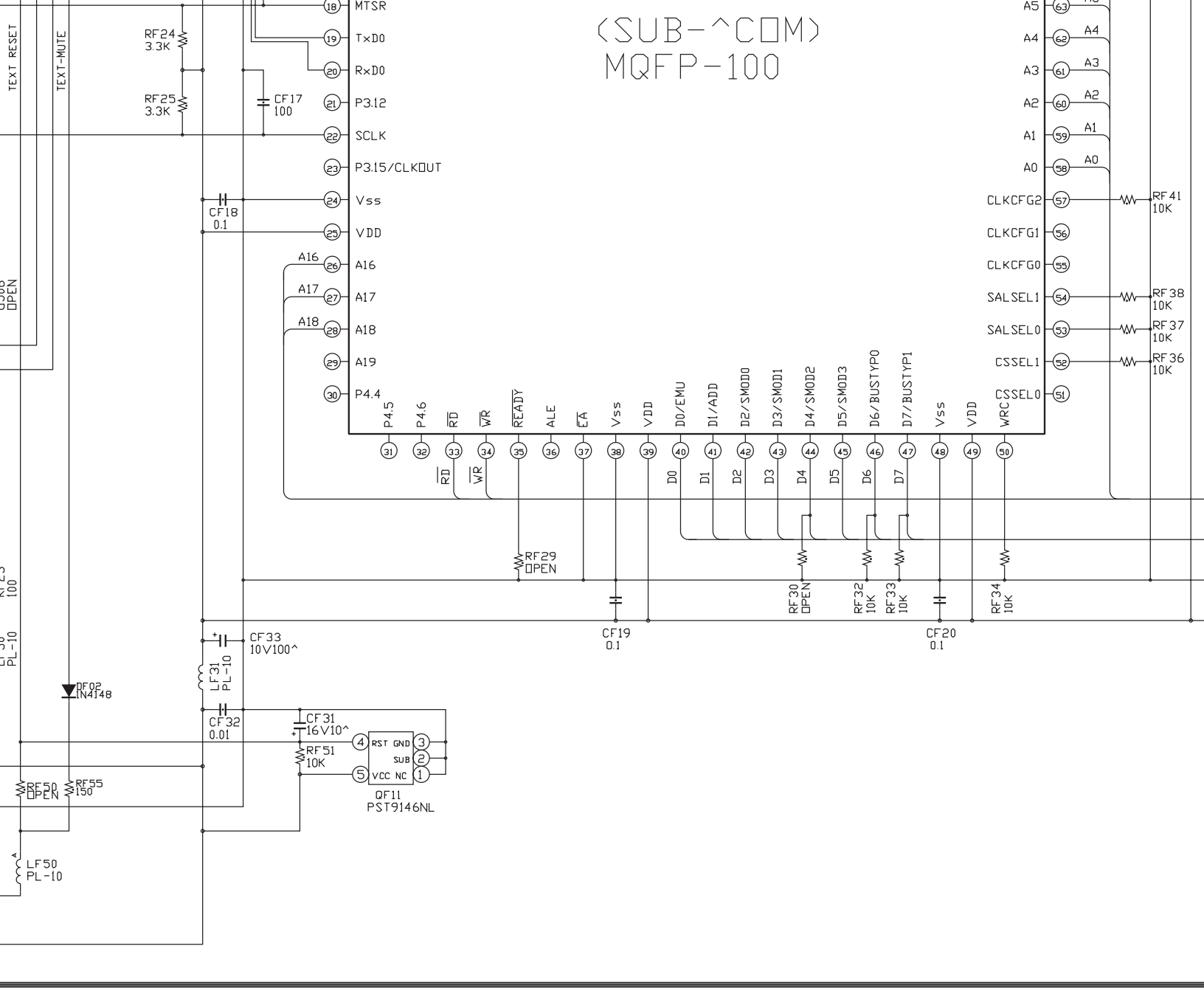
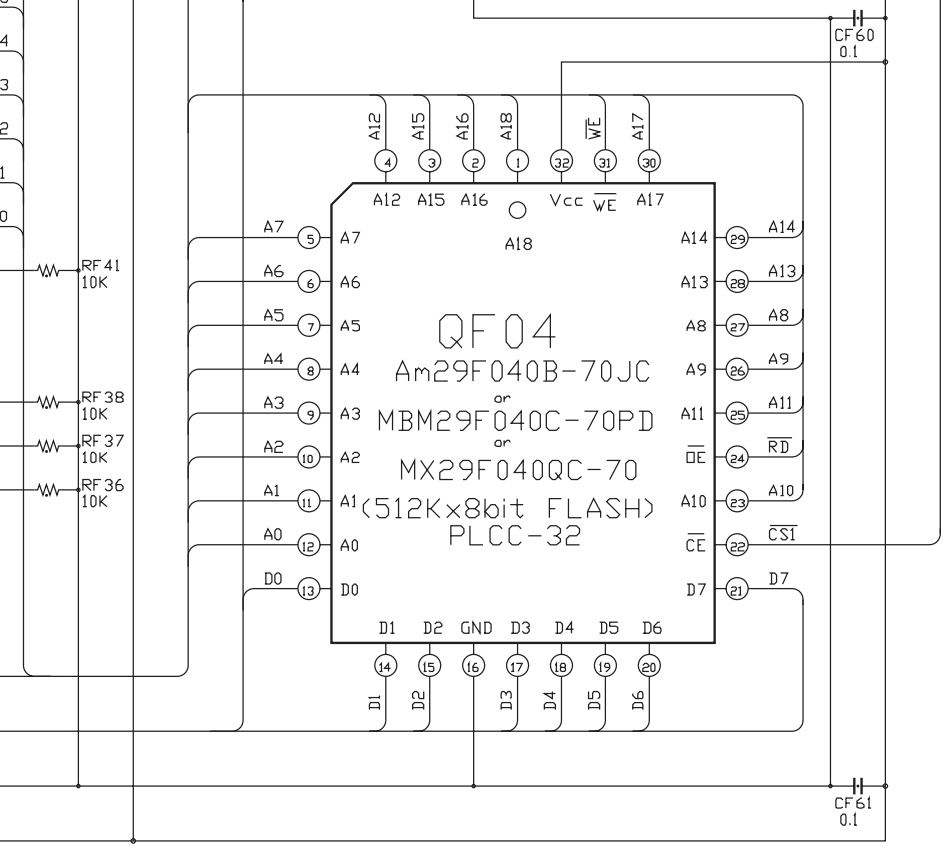
VS
TCSQ/FLD
CLK-IO
INTQ
I²CEN
SDA
SCL
CORQ
BLAN
B
G
R
MTX-SDA
MTX-SCL
CF67 OPEN
CF66 OPEN
QF32 2SC3437Y-L
RF07 3.3K
CF01 OPEN
RF01 OPEN
RF03 OPEN
RF02 OPEN
RF04 OPEN
RF19 1K
QF31 OPEN
RF18 10K
RF16 1.5K
QF34 2SC2712Y 2SC2412K
RF56 1K
CF26 CH33
TV/TEXT
TEXT RESET
TEXT-MUTE
GJ05 OPEN
GJ06 OPEN
N.C.
VSS2
VBB
VSSA2
RGB-GND
VSS1
RF13 OPEN
RF14 OPEN
RF15 OPEN
RF17 1K
A-GND
D-GND
CF09 M0.22
RF12 100K
CF13 10V100^
LF01 PL-10
CF14 10V100^
LF02 PL-1
CF15 0.01
GJ03 CHIP-JP
GJ04 CHIP-JP
LF25 PL-2.2
LF26 PL-2.2
LF27 PL-2.2
LF28 PL-2.2
CF25 0.1
LF24 PL-1
RF21 100
RF20 100
RF22 100
RF23 100
LF22 PL-1
LF23 PL-1
LF20 OPEN
LF21 PL-10
LF29 PL-10
LF30 PL-10
DF02 IN4148
RF50 OPEN
RF55 150
LF50 PL-10
TO SHIELD CASE
PF01A 15P B/F
TEXT R
TEXT B
TEXT-MUTE (TEXT-RESET)
GND
TEXT G
YS OUT
TEXT SYNC
TV/TEXT
V-AV
GND
HD
VD
SCL
SDA
+5V
TO~SIGNAL



UNIT SN.	
EPG	SN.23784879
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



EPG-TEXT(Ver.2)
40WH08G
40WH08B/7

E F G H

10 11 12

TOSHIBA

FILE NO. 030-200004

SERVICE MANUAL

COLOUR TELEVISION

C00P Chassis

40WH08G,40WH08B

PRINTED IN JAPAN Jun., 1999 Ⓣ

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 33)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

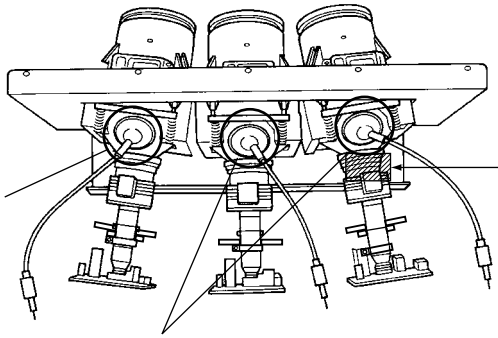
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

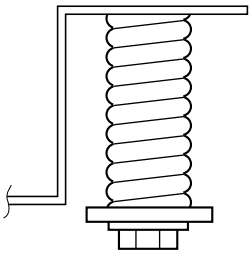
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

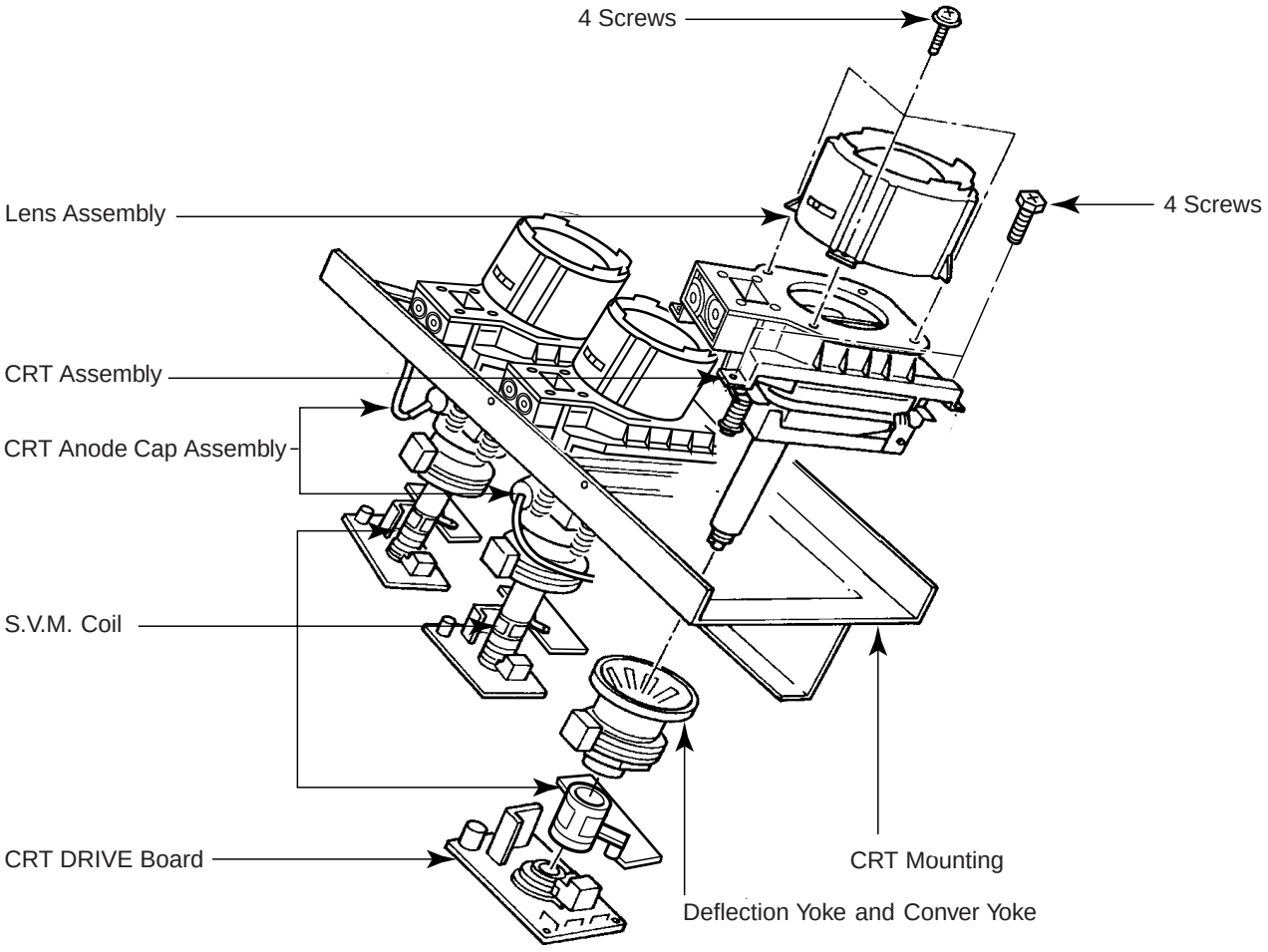
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

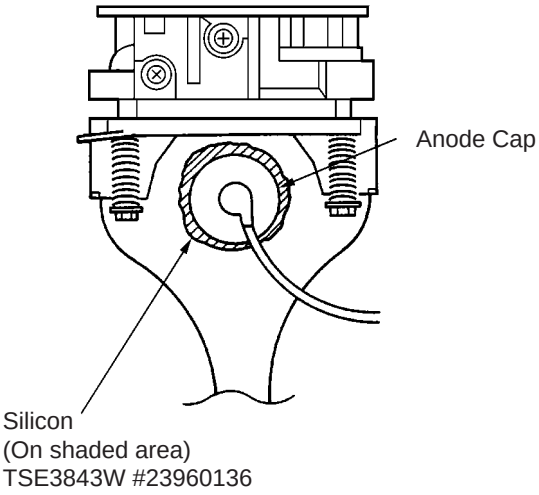
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

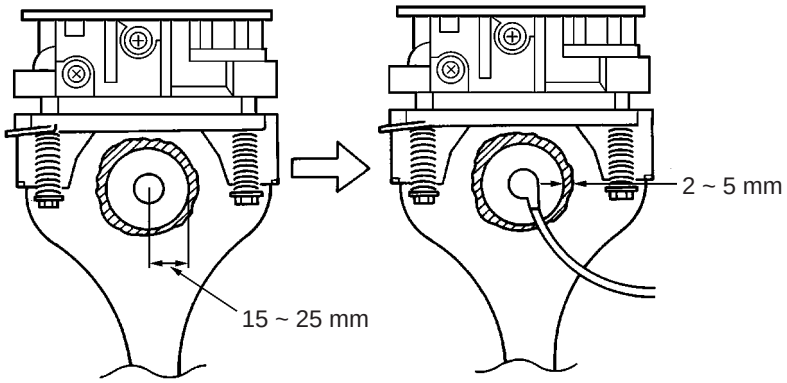
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

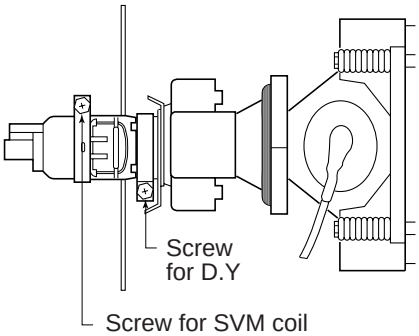
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 22.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



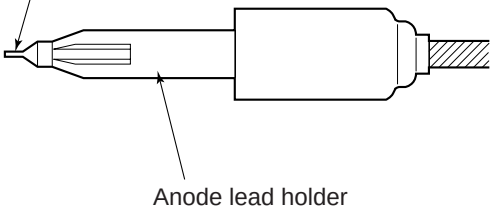
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

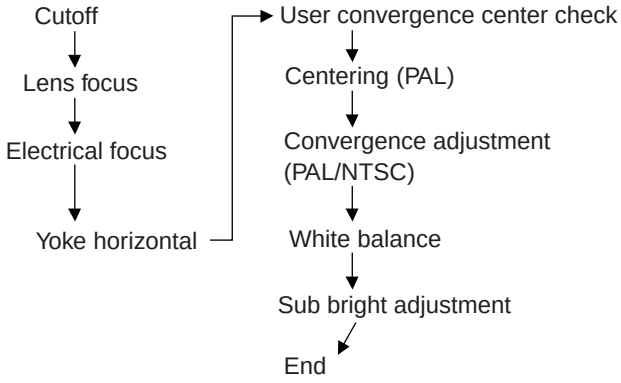
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



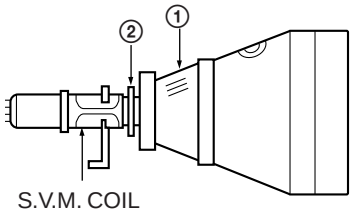
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

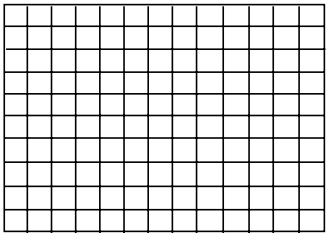
PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- ("Info") button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- ("Info") button on Remote. (Return to Normal) Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)



3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

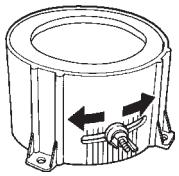


Fig. a

5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated black cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

12. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
13. Fix the GREEN lens by tightening up its fixing screws.
14. Expose only BLUE by covering the RED and GREEN lenses with caps.
15. Display the internally-generated black cross-hatch.
16. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
17. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

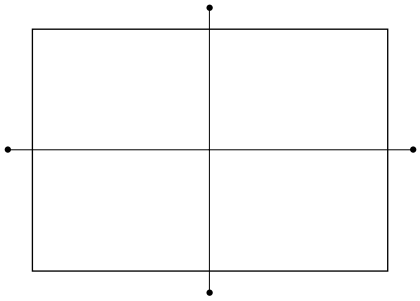
18. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
19. Fix the BLUE lens by tightening its fixing screws.

TILT ADJUSTMENT

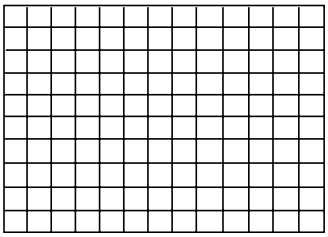
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center of screen edge (top and bottom, left and right).



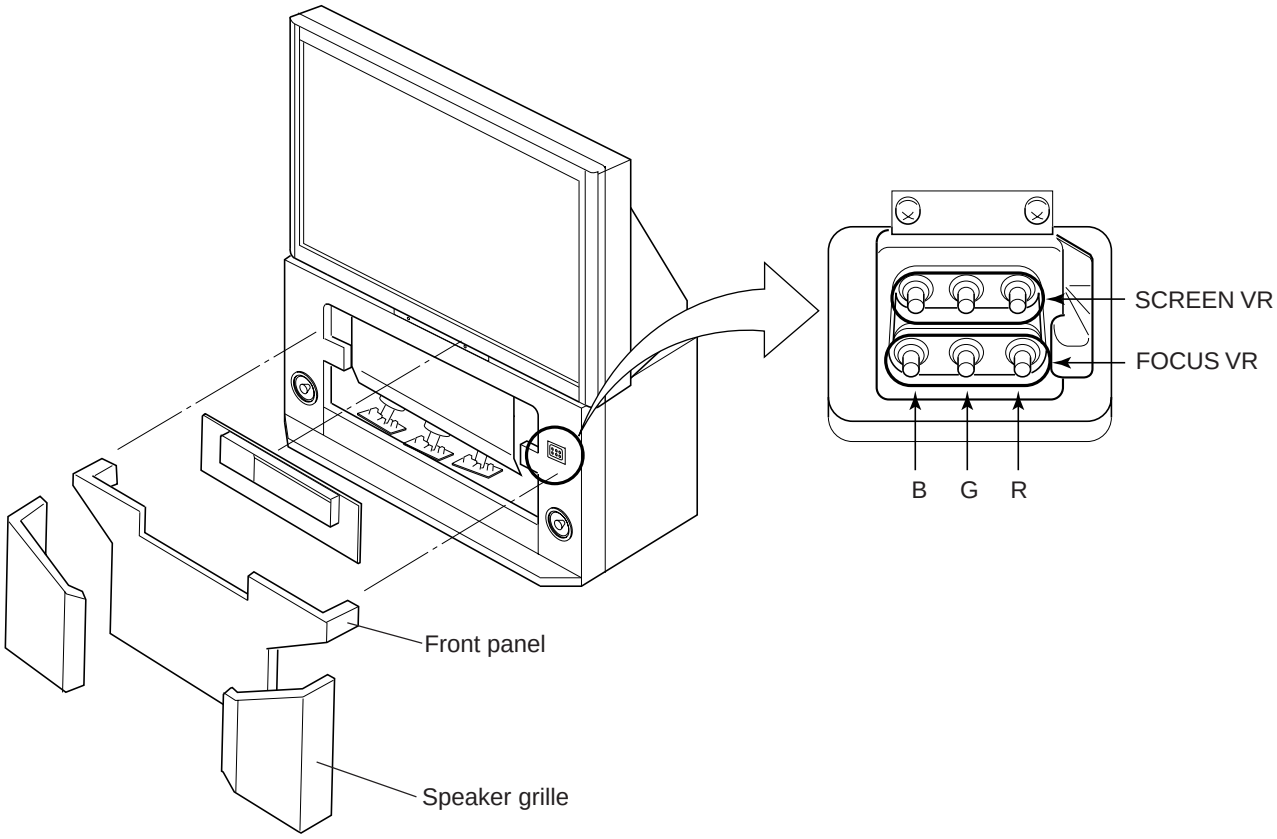
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform WIDTH adjustment. (See page 14.)
7. Check whole quality of green line.
8. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

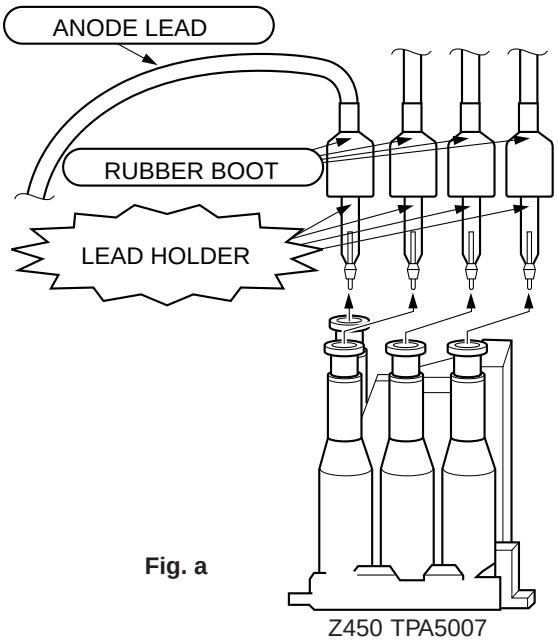


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5007 (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

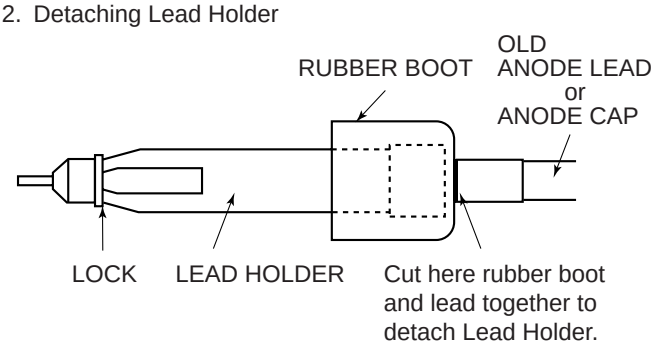


Fig. b

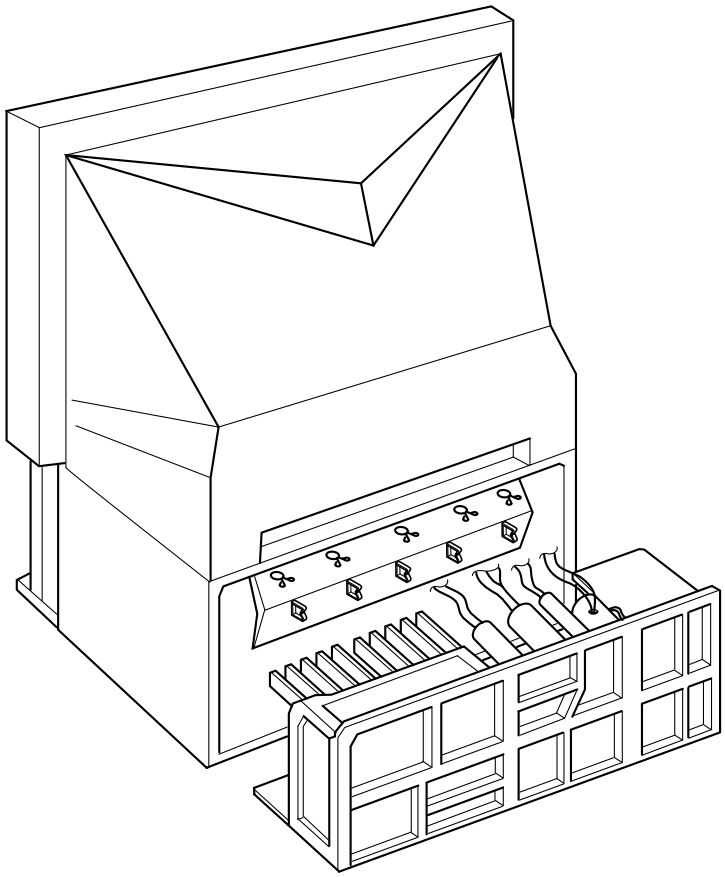
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

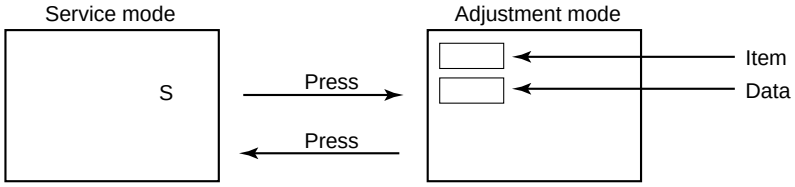
2) Press 🔇 button again to keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- ("Info") button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"SCNT" selection :	4 button
"COLC" selection :	5 button – – – – – Color thickness correction
"TNTC" selection :	6 button note: Displayed differently as shown below, de-
Convergence adj :	YELLOW button pending on the setting of the receiving color
Self diagnostic display ON/OFF :	9 button system.
	COLP (PAL)
	COLC (NTSC)
	COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 33)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

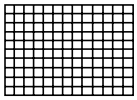
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

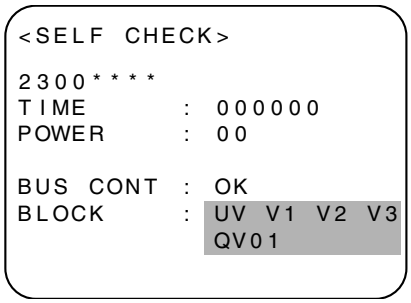
Signal off → PAL signals (5 patterns)
↑ NTSC signals (5 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ▒ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



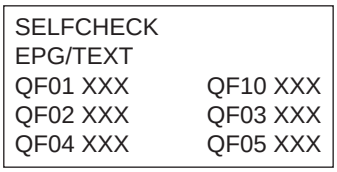
Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Total hour of turn the Power on. (unit: hour)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ (Green: OK, Red: NG)”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→①1)
V2 : VIDEO 2 input mode (→①2)
V3 : VIDEO 3 input mode (→①3)

* The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

3) Press "9" button on Remote Control during display of selfcheck display as above, the selfcheck screen for EPG/TEXT unit as shown below is displayed. (This function is only 40WH08G (EPG model).

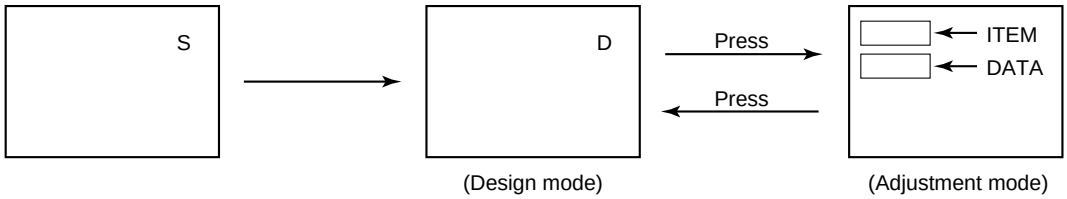


Part No.	Part Name	XXX	Contents
QF01	MEGATEXT	ERR	MEGATEXT plus SDA5275 access failed
		00	Unknown
		20	MEGATEXT plus SDA5275-3P C02-22
QF10	DRAM	00	no DRAM
		18	8 Mbit DRAM (2k-refresh type 16 Mbit DRAM)
		20	16 Mbit DRAM (4k-refresh type 16 Mbit DRAM)
QF02	SUB-MICOM	02	C161RI Version BB step
		04	C161RI Version AA step
QF03	PROGRAM FLASH-ROM	ERR	ROM access failed
		xxyy	Subsystem Version xx.yy
QF04	DATA FLASH-ROM	ERR	FLASH-ROM access failed
		00	no FLASH-ROM
		A4	AM29F040 (AMD, 4Mbit)
			MBM29F040C (Fujitsu, 4Mbit)
			MX29F040 (Macronix, 4Mbit)
		FF	Unknown 4Mbit FLASH-ROM
QF05	EEPROM	ERR	EEPROM access failed
		00	No EEPROM
		12	8kbit EEPROM

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



When QA02 is initialized, items “OPT0” and “OPT1” of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0” and “OPT1”.

2. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 33)

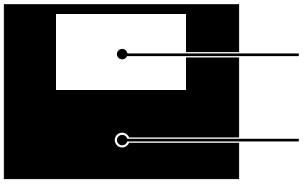
3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

PAL

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Select picture size WIDE mode. 2. Call up the adjustment mode display, and press the TV/VIDEO button on the remote untill the white cross dot pattern appears on the screen. 3. Press the CHANNEL ▲ or ▼ button to select the item **WID** and press the VOLUME ▲ or ▼ button to get the pictuer so the left and right edges of rester begin to lack. 4. Press the VOLUME ▲ or ▼ to advance the data 13 steps. * CAUTION "**WID**" data don't adjust other picture size, only WIDE mode.
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▲ or ▼ button to get the picture so the top of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by following steps. WIDE: 11 steps Super Live: 13 steps CINEMA: 21 steps Sub Title: 17 steps * CAUTION First adjust WIDE mode next other. Note : Check the vertical picture position is correct.

ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  1. Set user control to reset position. (CONTRAST → Max. BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the "Info" button on Remote control. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the "Info" button on Remote control. (Return to Normal Picture) 7. Press the ⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDR V** and **BDR V** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

(Reference factory adjustment)

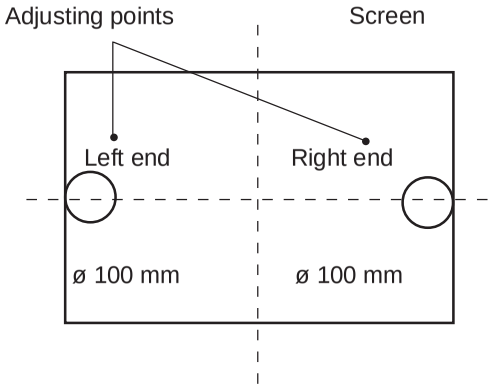
Item	Name	Setting	Input signal	Measuring point	Adjusting method	Adjustment standard
[SCNT]	Sub-contrast	Picture mode 1 Audio system: I Wide mode	Sub-bright signal (PAL-I signal)	TP46B SIGNAL unit	① Adjust the amplitude from the pedestal level to the white peak.	2.4 ± 0.1 Vpp
[BRTC]	Sub-bright center	Picture mode 1 Wide mode	Sub-bright signal	Screen adjustment	① Adjust the number of collapsed black bars of the sub-bright signal. ② Carry out adjustment after adjusting the W/B and SCNT.	4 ± 1.5 bars
[COLP]	Sub-color center PAL	Picture mode 1 Wide mode	Sub-bright signal (PAL)	TP46B SIGNAL unit	① Adjust the amplitude of the color bar. ② Adjust the P-P value of the upper half.	1.20 ± 0.1 Vpp
[COLS]	Sub-color center SECAM	Picture mode 1 Wide mode	SECAM color bar	TP46B SIGNAL unit	① Adjust the amplitude of the color bar. ② Adjust the P-P value of the upper half.	1.75 ± 0.1Vop
[SRY]	SECAM R-Y black level		SECAM color bar	TP02 SIGNAL unit	① Adjust so that the level of the mono-chrome signal part can meet the level of the H.BLK.	0 ± 10 mV
[SBY]	SECAN B-Y black level		SECAM color bar	TP01 SIGNAL unit	① Adjust so that the level of the mono-chrome signal part can meet the level of the H.BLK.	0 ± 10 mV

Item	Name	Setting	Input signal	Measuring point	Adjusting method	Adjustment standard
Screen adjustment	Screen	Factory- screen-adjustment mode		CRT screen	① Make the surrounding as dark as possible. ② Enter factory-screen-adjustment mode. (Y mute, DRV.CUT. = 40 H) ③ Directly observe the CRT screen, and adjust the screen VR to the point where it begins to emit light. ④ Use R, G, and B tubes respectively to perform above-mentioned adjustments.	Point where it begins to emit light.
Focus adjustment	Focus	Dynamic mode Cinema mode	Retoma signal (PAL-I) Crosshatch signal	Screen adjustment	① Make adjustments to achieve the best possible position by repeating electrical and optical focusing. ② Use jigs to protect the CRTs, except the axis under adjustment, from any light. ③ Use R, G, ad B tubes respectively to perform above-mentioned adjustments.	For details, refer to the focus adjust-ment method
RDRV BDRV	Bright part W/B			Screen adjustment	① Adjust the color temperature of the bright part (103cd/m^2).	8750k–0.002uv
RCUT BCUT	Dark part W/B			Screen adjustment	① Adjust the color temperature of the dark part (17cd/m^2).	8750k–0.002uv
Vert. Center voltage adjustment	Center voltage	Dynamic mode Wide mode	Phillips pattern (PAL-I)	Between TP-V and TP-G	① Connect a voltmeter and adjust the high voltage to +30 ± 10mV.	+30 ± 10mV

Focus adjustment method (1/2)

Model	Adjustment points	Adjustment methods
40WH08G 40WH08B		Conditions: (1) RED, BLUE: Internal Retoma signals (PAL) (2) GREEN: Internal crosshatch signal (white crosshatch on black background) (3) User adjustment: Dynamic mode, cinema mode (4) Carry out electrical focus and lens focus after rough adjustment. (5) Use the jig to protect everything, except the color subjected to adjustment, from exposure to light.
	Electrical focus	(1) Receive the internal Retoma signals, use the focus VR of the focus pack (Z410), and adjust the electrical focus of each R and B projection tube to the position where the center of the screen gets optimally focused. (2) Receive the internal crosshatch signals, use the focus VR of the focus pack (Z410), and adjust the electrical focus of G so that the vertical scanning lines on the screen center can appear most clearly.
	Lens focus (Precautions)	(1) R, B: Receive the internal Retoma signals, watch the screen center and its periphery, and make adjustment to the best possible focus. (2) G: Adjust this by the method ① Carry out anticipated adjustment on the G lens, considering the time until the lens focus stabilizes. ② The level of anticipated adjustment on the G lens results in a required level of correction, if an adjustment point is set on the screen. ③ During a heat run, be sure to keep lower the G's screen VR of the focus pack from turning on the power of the set until immediately before the cutoff adjustment in order to stabilize the G's coupling liquid temperature.

Focus adjustment method (2/2)
GREEN lens focus adjustment

Model	Metodo di regolazione
[1] 40WH08 series  (Point of observation) Inside the circle of 100mm that is in contact with left and right bezels.	(1)Receive internal crosshatch signals, use the lens cap, and concentrate on the single color of G. (2)Watch the horizon of both the left and right ends on the horizontal axis of the screen, adjust the lens focus of G to the very best, and check that the left-and-right focus balance is appropriate. (Check left-and right balance of G lens focus) ① Use the left (or right) end crosshatch and make the best adjustment on the G's lens focus. ② Check the right (or left) end focus. (3)If the left and right lens focus is not properly balanced (tendency for flare), divide and adjust it to the middle grade. (4)Check on the periphery, and make certain that the focus grade lies within a tolerable level (including flare).

Completion of adjustment

Item	Name	Setting	Input signal	Measuring point	Adjusting method	Adjustment standard
Screen position adjustment		Picture mode 1	Phillips pattern (PAL-I)	Screen adjustment	(1)Adjust the vertical and horizontal screen positions and centering magnet so that the central + mark of the dummy screen and the + mark of the Phillips pattern can overlap in conformity. Carry this out individually on 3 tubes of R, G, and B (Note) Do not move HPOS, VPOS data	Less than ø7mm
HIT VLIN	Vertical amplitude adjustment (PAL WIDE)	Picture mode 1 WIDE mode	Phillips pattern (PAL-I)	Screen adjustment	(1)Turn the screen size to WIDE. (2)In the first place, shorten the vertical amplitude using HIT data until the upper and low flags emerge on the screen. (3)Then, extend the vertical amplitude with the HIT data until either upper or lower flag end conforms to the screen end (Adjust the vertical center of the pattern to the central mark of the screen.)	Upper and lower flags are to be in contact
HIT	Vertical amplitude adjustment (PAL Super-live)	Picture mode 1 Super-live mode	Phillips pattern (PAL-I)	Screen adjustment	(1)Turn the screen size to Super-live. (2)Adjust with the HIT so that the top and bottom of the inner circle of Phillips pattern will contact the screen edge. (Note) VLIN adjustment is not performed.	The inner circle is to contact the screen edge
HIT	Vertical amplitude adjustment (PAL cinema)	Picture mode 1 CINEMA mode	Phillips pattern (PAL-I)	Screen adjustment	(1)Turn the screen size to CINEMA. (2)Adjust the registers on the top and bottom of the Phillips pattern (Note) Do not touch the centering magnet	

Completion of adjustment

Item	Name	Setting	Input signal	Measuring point	Adjusting method	Adjustment standard
HIT	Vertical amplitude adjustment (PAL SUB-TITLE)	Picture mode 1 Super-live mode	Phillips pattern (PAL-I)	Screen adjustment	(1) Turn the screen size to SUB-TITLE. (2) Adjust the registers on the top and bottom of the Phillips pattern as shown in the next page. (Note) Do not touch the centering magnet	
WID	Vertical amplitude adjustment PAL WIDE	Picture mode 1 WIDE mode	Phillips pattern (PAL-I)	Screen adjustment	(1) Turn the screen size to WIDE. (2) The left and right flags of the Phillips pattern are to contact the screen edge. (3) The user center position adjustment is to be 0.	
NHIT NLIN	Vertical amplitude adjustment NTSC WIDE	Picture mode 1 WIDE mode	Monosco signals NTSC LEADERE-435B	Screen adjustment	(1) Turn the screen size to WIDE mode. (2) The 1st line on the screen is to be hidden by the mask.	
NHIT	Vertical amplitude adjustment SUPER-LIVE NTSC	Picture mode 1 SUPER-LIVE mode	Monosco signals NTSC LEADER-435B	Screen adjustment	(1) Turn the screen size to SUPER-LIVE mode. (2) Adjust so that the upper side 3rd line on the screen will contact the screen edge. (3) Do not adjust the NVLI.	
NHIT	Vertical amplitude adjustment CINEMA NTSC	Picture mode 1 CINEMA mode	Monosco signals NTSC LEADER-435B	Screen adjustment	(1) Turn the screen size to CINEMA mode. (2) Adjust so that the character 30 on the upper, lower, and left-and-right ends will contact the screen edge.	
NHIT	Vertical amplitude adjustment SUB-TITLE NTSC	Picture mode 1 SUB-TITLE mode	Monosco signals NTSC LEADER-435B	Screen adjustment	(1) Turn the screen size to SUB-TITLE mode. (2) Adjust so that the upper side 5th line of the register on the screen will contact the screen. (3) The NVLI is not to be adjusted.	

Completion of adjustment

Item	Name	Setting	Input signal	Measuring point	Adjusting method	Adjustment standard
NWIDE	Horizontal amplitude adjustment WIDE NTSC	Picture mode 1 WIDE mode	Monosco signals NTSC LEADER-435B	Screen adjustment	(1) Turn the screen size to WIDE. (2) Adjust the 2nd left register to the left edge of the screen.	

CONVERGENCE ADJUSTMENT

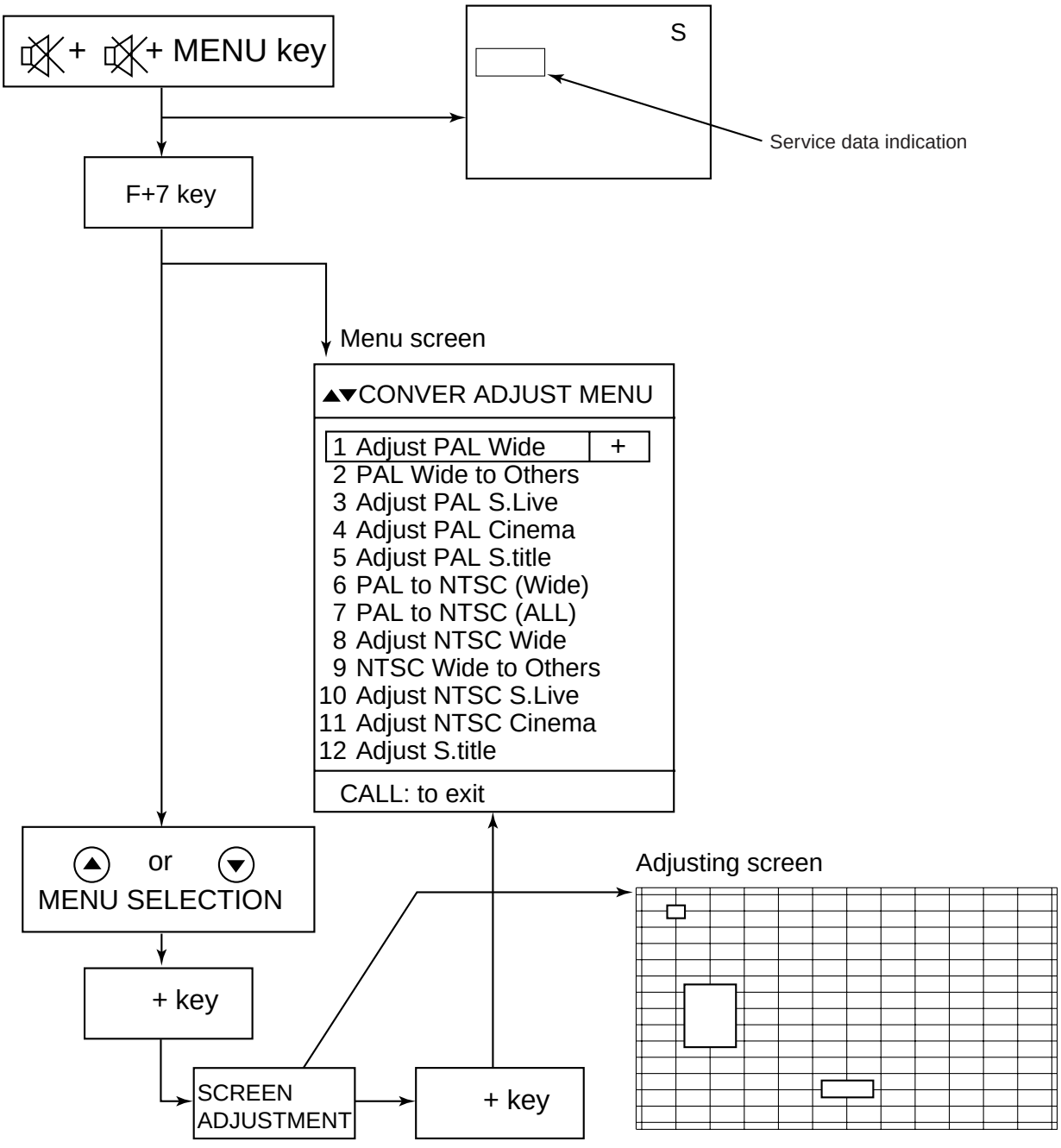
1. Screen Adjustment

The four PAL screens Wide/4:3, Super Live, Cinema and Subtitle, and the four NTSC screens Wide/4:3, Super Live, Cinema and Subtitle are adjusted. When adjusting, input an external signal for matching the sync.

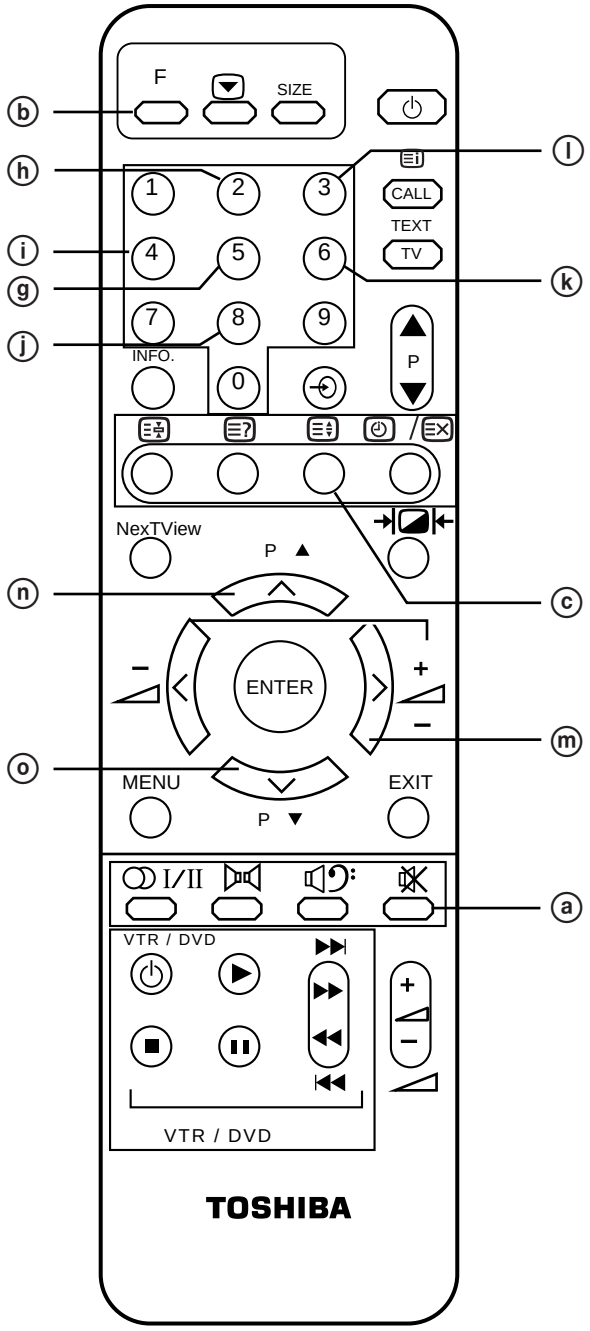
> CAUTION: The convergence circuit eliminates screen distortion but cannot make large corrections such as changing the overall screen size. Use caution because the protection circuit will be activated if corrections are excessively large. Before starting to adjust the various screens, always adjust the vertical size (HIT) and horizontal size (WID) by changing the main deflection data.

Execute the adjustment screens in the sequence Wide/4:3 → Super Live → Cinema → Subtitle for both PAL and NTSC.

1-1. Entering Adjustmet Menu



1-2. Remote Contol Key



ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.

ⓑ F key ..... Push this key and 7 key to enter the con vergence menu.

ⓒ Yellow key..... Convergence adjusting screen key.

ⓖ 5 key ..... Cursor shift / data change mode change-over.

ⓗ 2 key ..... Cursor up / adjusting point up.

ⓘ 4 key ..... Cursor left / adjusting point left

ⓙ 8 key ..... Cursor down / adjusting point down

ⓚ 6 key ..... Cursor right / adjusting point right

ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).

ⓜ + key ..... Excutetion key on convergence menu.

ⓝ ▲ key ..... Up key on convergence menu.

ⓞ ▼ key ..... Down key on convergence menu.

Fig. 2

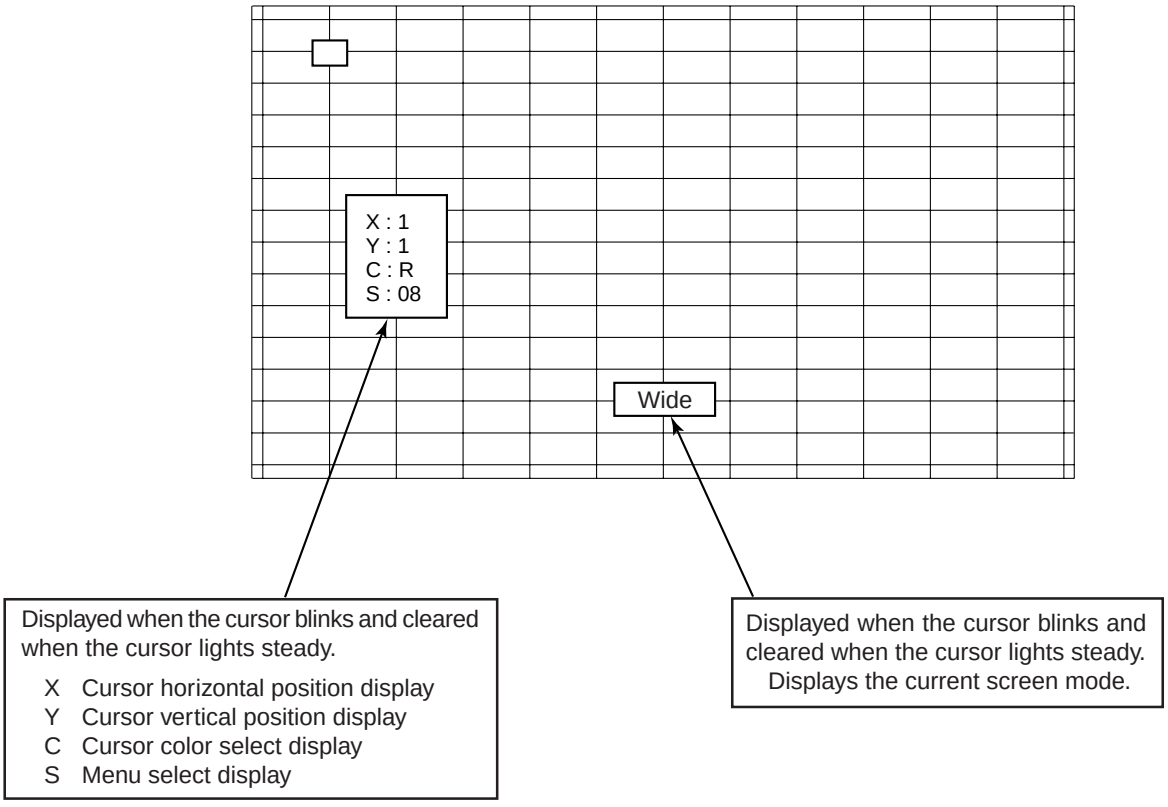
1-3. Adjusting Screen

1) Adjusting menu

NO	Item	Description
1	Adjust PAL Wide	Used for manual adjustment of the Wide/4:3 screen in the PAL mode. Returns to the original screen data screen before data conversion, explained below.
2	PAL Wide to others	Automatically saves approximate supplementary data for the other PAL screens based on the PAL Wide/4:3 screen data. First, the PAL Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all PAL screens are re-adjusted when this menu is selected and executed.
3	Adjust PAL S.Live	Used for manual adjustment of the PAL Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
4	Adjust PAL Cinema	Used for manual adjustment of the PAL Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
5	Adjust PAL S.title	Used for manual adjustment of the PAL S.title screen. Select this mode for S.title screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
6	PAL to NTSC (Wide)	PAL Wide/4:3 screen data is calculated, converted to NTSC Wide/4:3 approximate data and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
7	PAL to NTSC (All)	Data for all PAL screens is converted to approximate data for the NTSC screens and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
8	Adjust NTSC Wide	Used for manual adjustment of the NTSC Wide/4:3 screen. Select this mode for Wide/4:3 screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
9	NTSC Wide to others	Approximate supplementary data for the other NTSC screens is automatically saved based on the NTSC Wide/4:3 screen data. First, the NTSC Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all NTSC screens are re-adjusted when this menu is selected and executed.

NO	Item	Description
10	Adjust NTSC S.Live	Used for manual adjustment of the NTSC Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
11	Adjust NTSC Cinema	Used for manual adjustment of the NTSC Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
12	Adjust NTSC S.title	Used for manual adjustment of the NTSC Subtitle screen. Select this mode for Subtitle screen color matching and distortion adjustment. Use the specified dimensions when adjusting.

2) Adjustment Screen


X : 1
Y : 1
C : R
S : 08
Wide
Displayed when the cursor blinks and cleared when the cursor lights steady.
X Cursor horizontal position display
Y Cursor vertical position display
C Cursor color select display
S Menu select display
Displayed when the cursor blinks and cleared when the cursor lights steady.
Displays the current screen mode.

3) Adjustment Sequence

When the initial screen opens, X = 1, Y = 1, C = R and S = [Select Menu] are displayed as the defaults. The cursor can now be moved up, down, left and right using the (2), (8), (4) and (6) keys of the remote control. Select the desired adjustment and press the (5) key; the cursor will light steady and the screen display will be cleared. Again press the (2), (8), (4) and (6) keys of the remote control to adjust the shape of the screen. When adjustment has been completed, press the (+) key to return to the Adjustment Menu. When all of the screen adjustments have been completed, turn off the main power supply of the set to reset the menu.

2. Case Study

In many cases, color matching problems can be solved by returning the HIT and WID data for main deflection to the initial adjustment values. Convergence cannot be re-adjusted in the following cases.

2-1 When the CRT has been replaced

Main deflection re-adjustment and color matching are necessary when the CRT has been replaced. Use the following procedure.

1. Replace the blue and red CRTs.
2. Perform the blue and red yoke horizontal adjustments in relation to the green CRT. Press the yokes and speed modulation coils + alignments onto the CRTs and fasten after making sure that there are no gaps.
3. Adjust the blue and red alignments (refer to the detailed alignment adjustment item).
4. Use centering magnets to center the blue and red CRTs in relation to the green CRT.
5. Adjust the main deflection HIT and WID data, using the most accurate location in relation to the green as data.
6. Use convergence to match the colors for each screen. Green will not work at this time.
7. When the convergence adjustments have been completed for all screens, then replace the green CRT.

Repeat the procedures in steps 2 - 5 for the green CRT but this time use convergence to match the colors using red and blue as reference.

2-2 When replacing the convergence unit

Generally, all of the screens must be re-adjusted when the convergence unit is replaced, but the process can be greatly shortened by using the following method.

1. Replace the memory (Q711, Q712, Q713) of the new unit with the memory (Q711, Q712, Q713) of the defective unit. This makes it possible to quickly reproduce the previous screen status when installed in the set.
2. Install the new unit with the old memory in the set and turn on the power. The entire screen will move linearly in either the vertical or horizontal direction.
3. Use centering magnets to re-adjust the green, red and blue centers.
4. There is possibility of color mismatching or differences in screen size when the various screens are checked. In such case, adjust the main deflection and apply a slight amount of convergence color matching.

2-3 When none of the above cases apply (rare case)

An unexpected situation or major operational error, etc., could be considered but it is recommended that all screens be matched starting from the beginning. If the initial positions of the centering magnets are unknown, disconnect the connectors for the convergence sub-yoke outputs one at a time, adjust the CRT centering and then start the following adjustments.

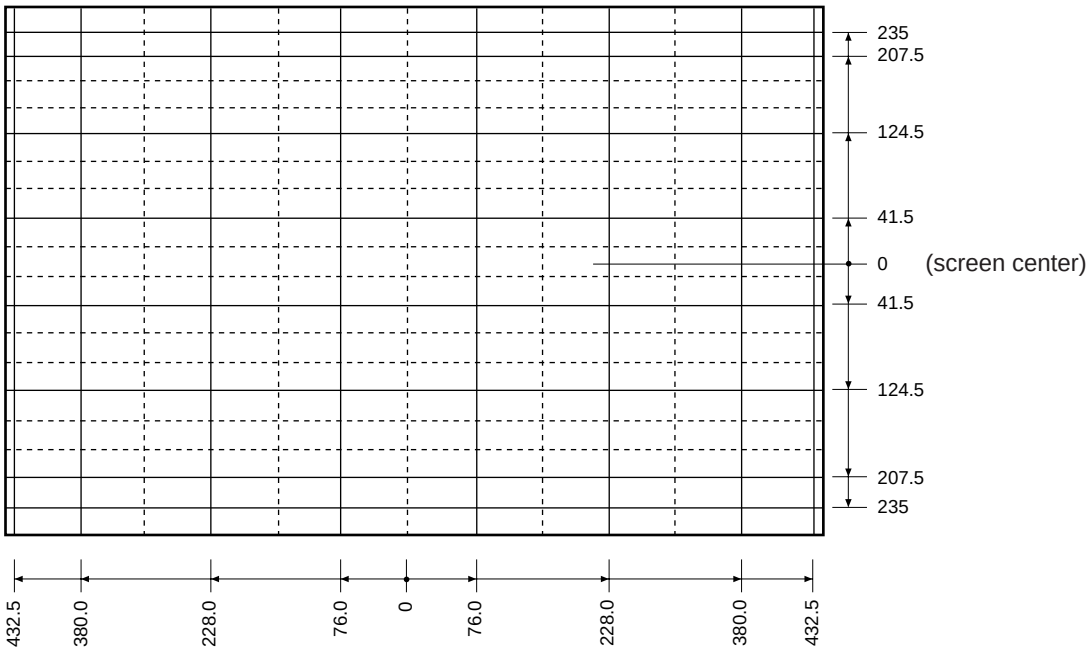
1. Make sure that there is plenty of room for the static cross convergence to be moved left, right, up and down. If sufficient space is not available, move to an appropriate location and then re-adjust the centering.
2. Enter the convergence adjustment mode and call out the menu. (Leave the PAL signal connected.)
3. Select 1. Adjust PAL Wide and adjust the PAL mode Wide/4:3 screen manually in accordance with the dimension diagram.
4. When the Wide/4:3 screen adjustment has been completed, return to the Main Menu and select 2. PAL Wide to others.

   The screen will change automatically and the Wide, Cinema and Subtitle screens will be created automatically.
5. Next, select 3. Adjust PAL S.Live and mainly adjust in the horizontal direction in accordance with the dimension diagram.
6. Next, select 4. Adjust PAL Cinema and fine adjust to remove any Cinema screen distortion.
7. Next, select 5. Adjust PAL Subtitle and fine adjust to remove any Subtitle screen distortion.
8. Next, select 7. PAL to NTSC (ALL), then calculate and copy the data for all PAL screens in the NTSC mode. At this time, the calculations and screen shape changes will be performed automatically and the NTSC screen data corresponding to the PAL screens will be transferred.
9. Select in sequence 8. Adjust NTSC Wide, 10. Adjust NTSC S.Live, 11. Adjust NTSC Cinema and 12. Adjust NTSC Subtitle, check the respective NTSC screen modes and, if necessary, adjust for any distortion.

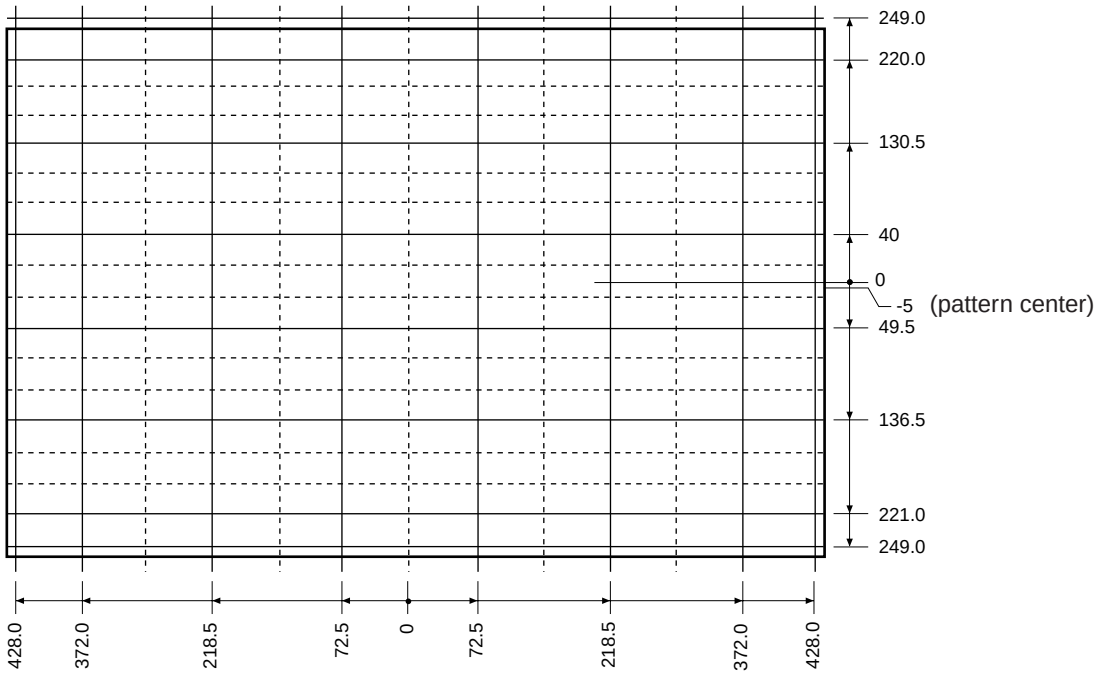
All of the screens can be adjusted with the above process but make every effort not to change the factory data unless absolutely necessary. Try not to change the convergence data any more than necessary.

3 Screen adjustment dimensions

3-1 WIDE/4:3 (PAL mode)



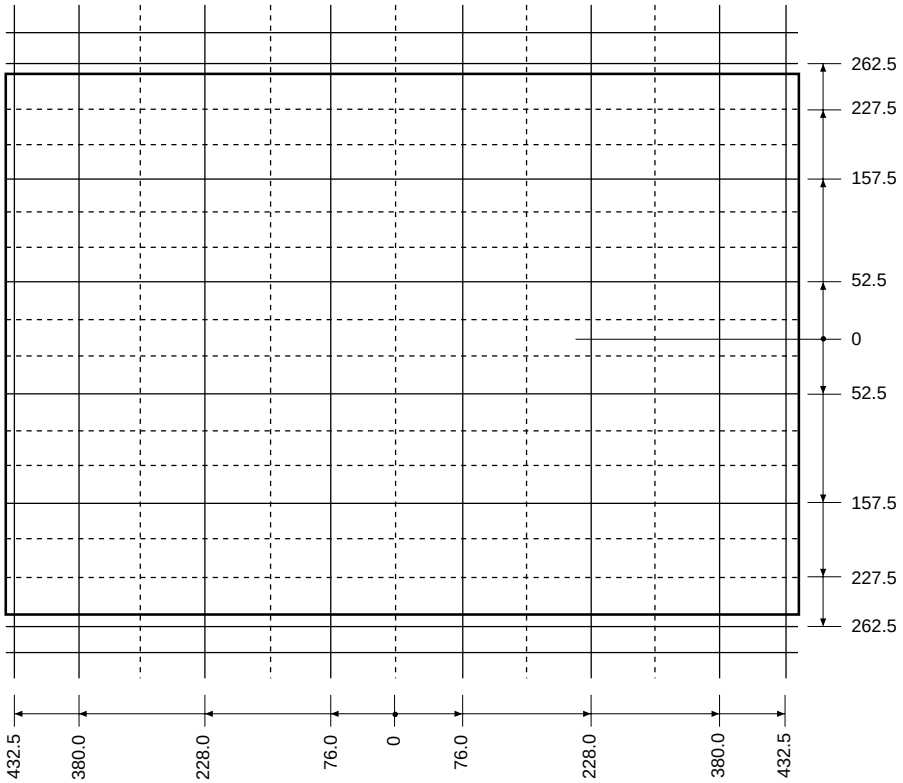
3-2 Super Wide (PAL mode)



Caution: Do not perform the VLIN adjustment.

3-3 Cinema (PAL mode)

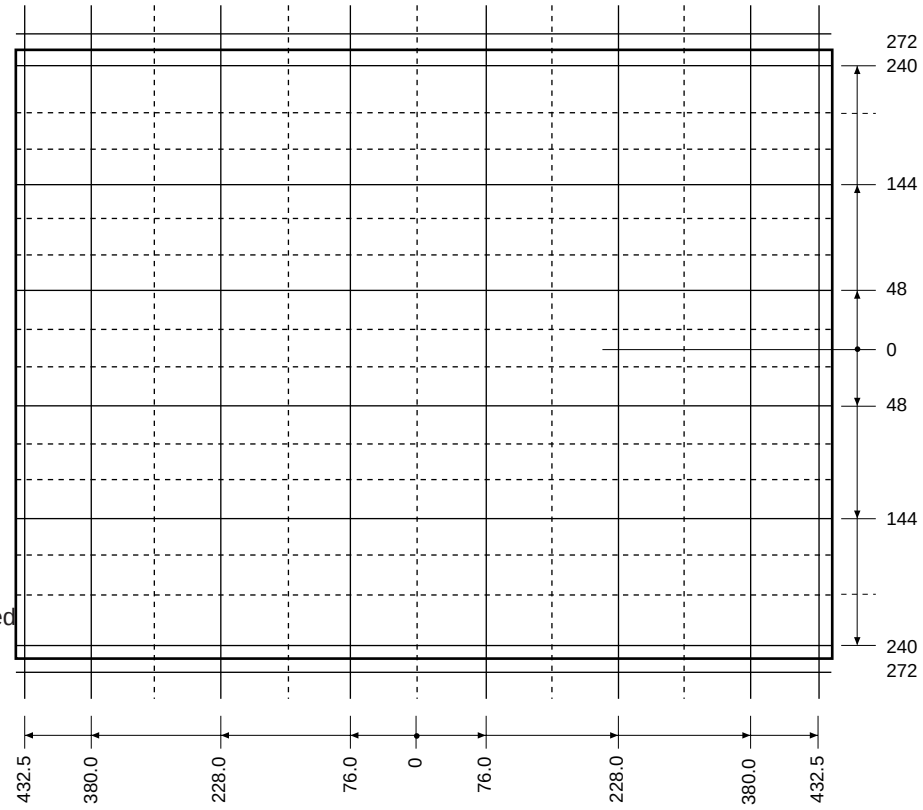
Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.



3-4 Subtitle (PAL mode)

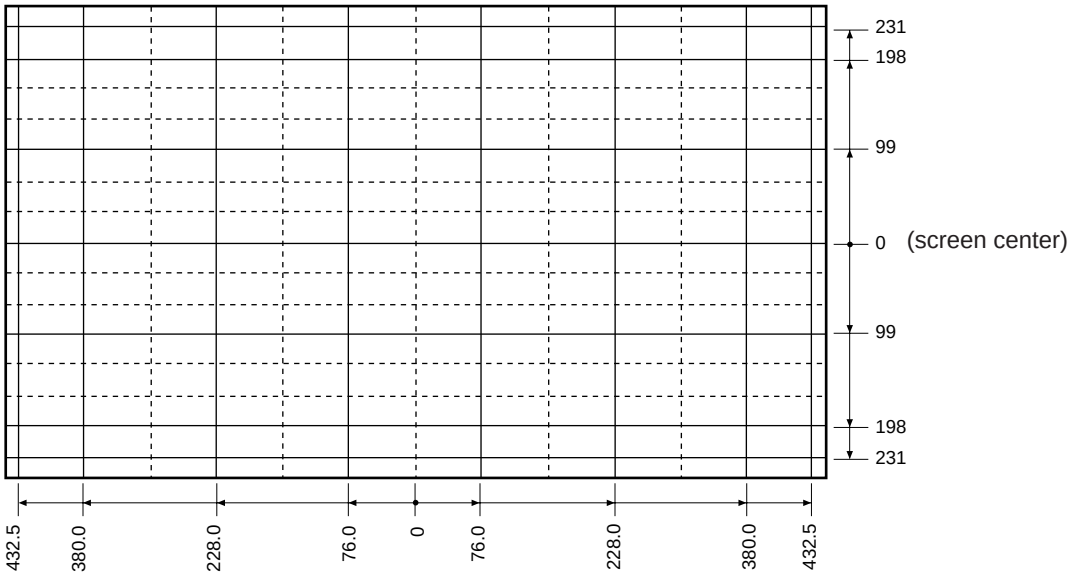
Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.

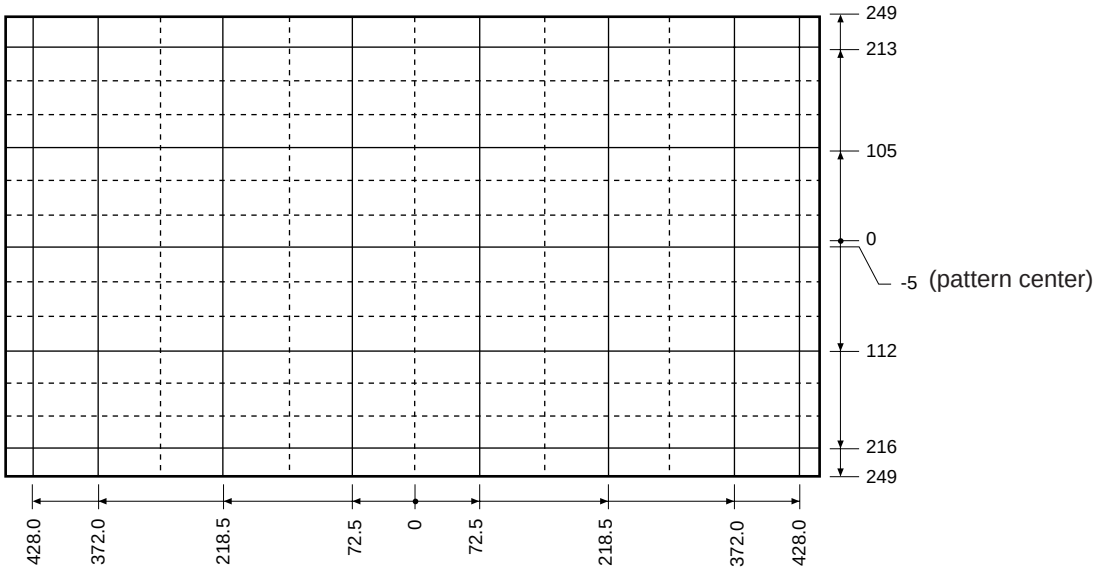


Screen limit changed

3-5 WIDE/4:3 (NTSC mode)



3-6 Super Live (NTSC mode)

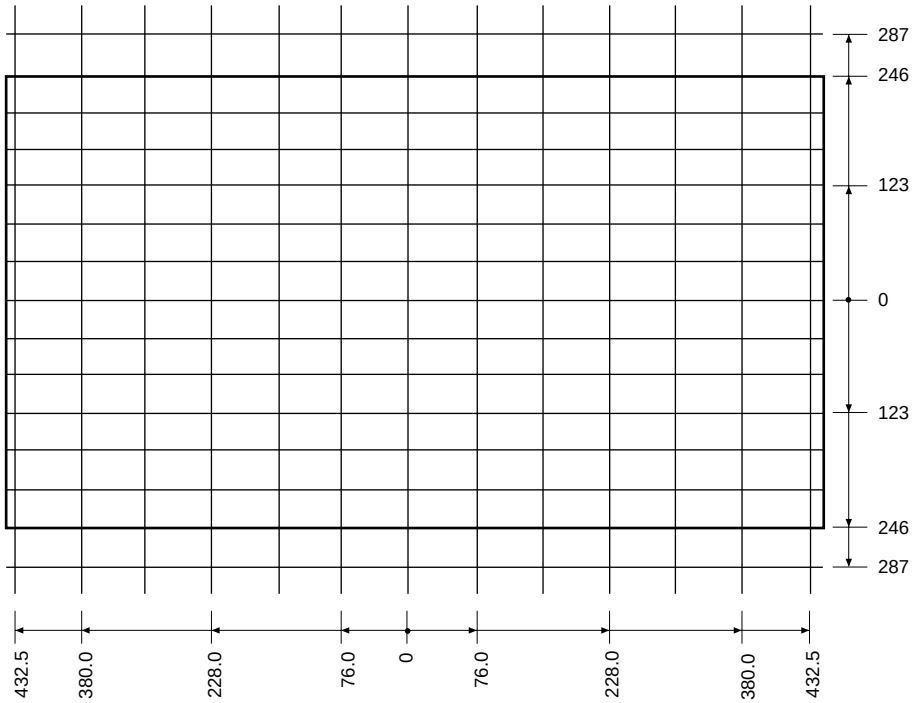


Caution: Do not perform the VLIN adjustment.

3-7 Cinema (NTSC mode)

Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

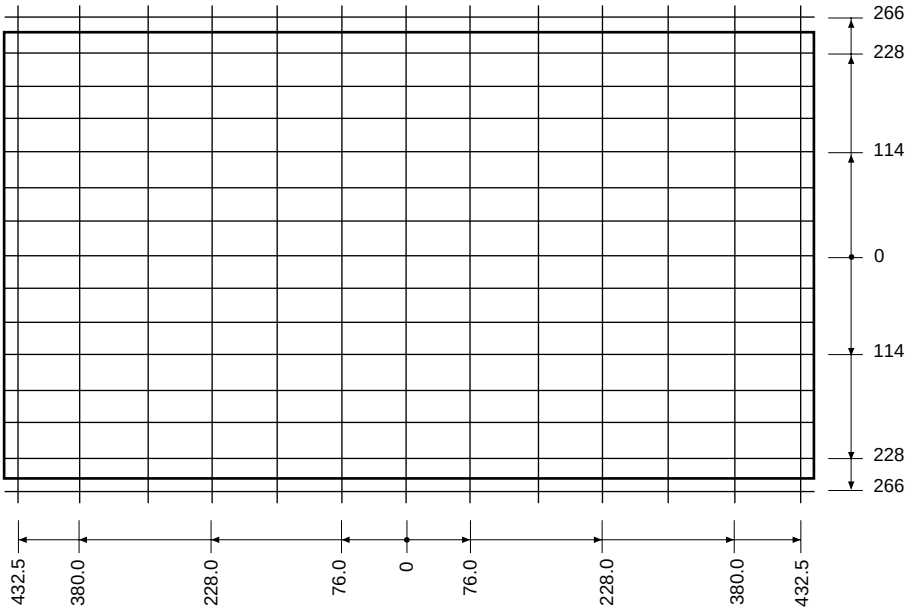
Note: Please be aware that the Cinema screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.



3-8 Subtitle (NTSC mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 32mm above that.



SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page 37.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid ..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 33)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3078BD
D489	Zener Diode	MTZJ3.6B
Q480	Transistor	2SC2023
Q483	IC	TA7508P(J)
R435	Resistor	33k ohm, ±5%
R489	Resistor	3.3k ohm, ±5%
R490	Resistor	3.3k ohm, ±5%
R450	VR	1k ohm
C440	Capacitor	1000pF, ±3%
C443	Capacitor	6800pF, ±3%
C444	Capacitor	5100pF, ±3%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【SAFETY INSTRUCTIONS】

		40"
HIGH VOLTAGE AT ZERO BEAM:	(A)	32.3 kV
MAX HIGH VOLTAGE:	(B)	33.8 kV
AV VOLTAGE	(C)	230 V

Table-1

【SERVICE MODE】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE: (PAL WIDE)

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
BRTC	SUB BRIGHT CEN	80H
COLP	SUB COLOR CEN PAL	3DH
COLS	SUB COLOR CEN SECAM	3DH
SCNT	SUB CONTRAST	08H
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	01H
HPOS	50Hz H-POSITION *	67H (WIDE)

Item	Adjustment	Reference data
VPOS	V-POSITION*	09H (WIDE)
HIT	HEIGHT (Table 2-1)	3FH (WIDE)
VLIN	V-LINEARITY (Table 2-1)	11H (WIDE)
VSC	V-S CORRECTION*	0BH (WIDE)
VPS	V-SHIFT*	1CH (WIDE)
WID	PICTURE WIDTH	1EH (WIDE)
PARA	E-W PARABOLA*	11H (WIDE)
CNR	E-W CORNER*	01H (WIDE)
TRAP	TRAPEZIUM*	20H (WIDE)
VFC	V-F CORRECTION*	0FH (WIDE)
VCEN	V-CENTER	6AH (WIDE)

* This data is not a service item of WH08. (described references data for wide)

Table-2

ITEM	Reference data by Picture Size					
	WIDE	4:3	SuperLive	Cinema	Substitle	14:9
HIT	3FH	3FH	4CH	62H	51H	51H
VLIN	11H	11H	0EH	11H	11H	11H

Table-2-1

【DESIGN MODE】

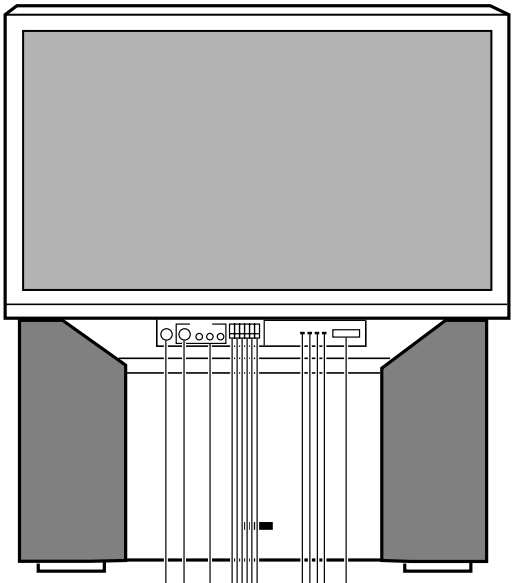
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data of 40WH08G	Preset Data of 40WH08B	Remarks
OPT1 OPT0	OPTION 1 OPTION 0	7EH B0H	7EH 91H	

Table-3

LOCATION OF CONTROLS

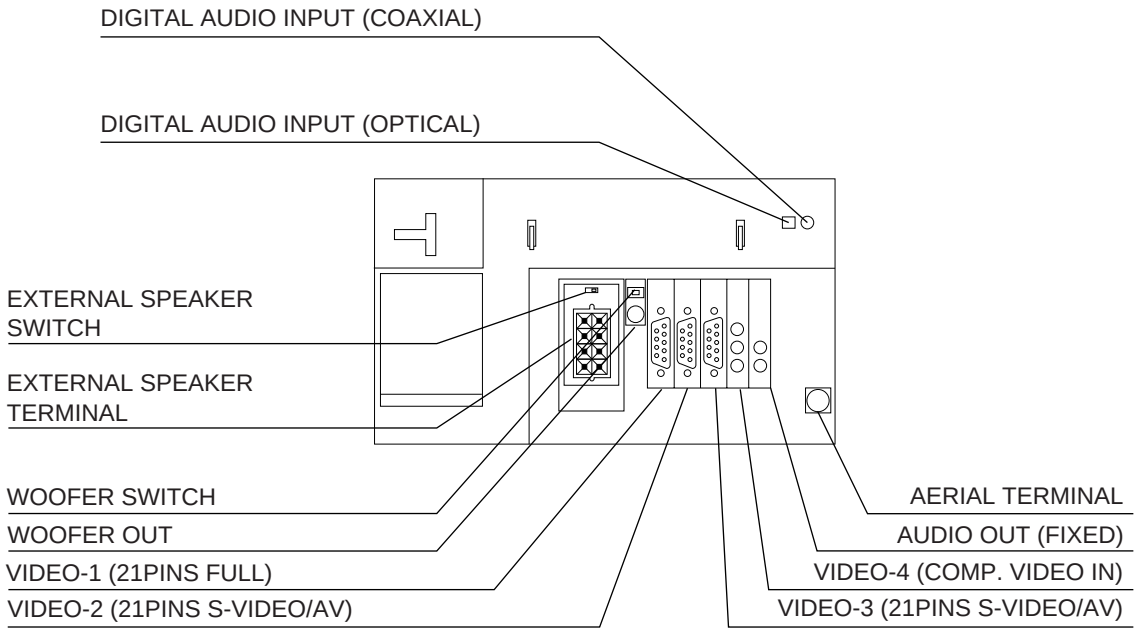
Front



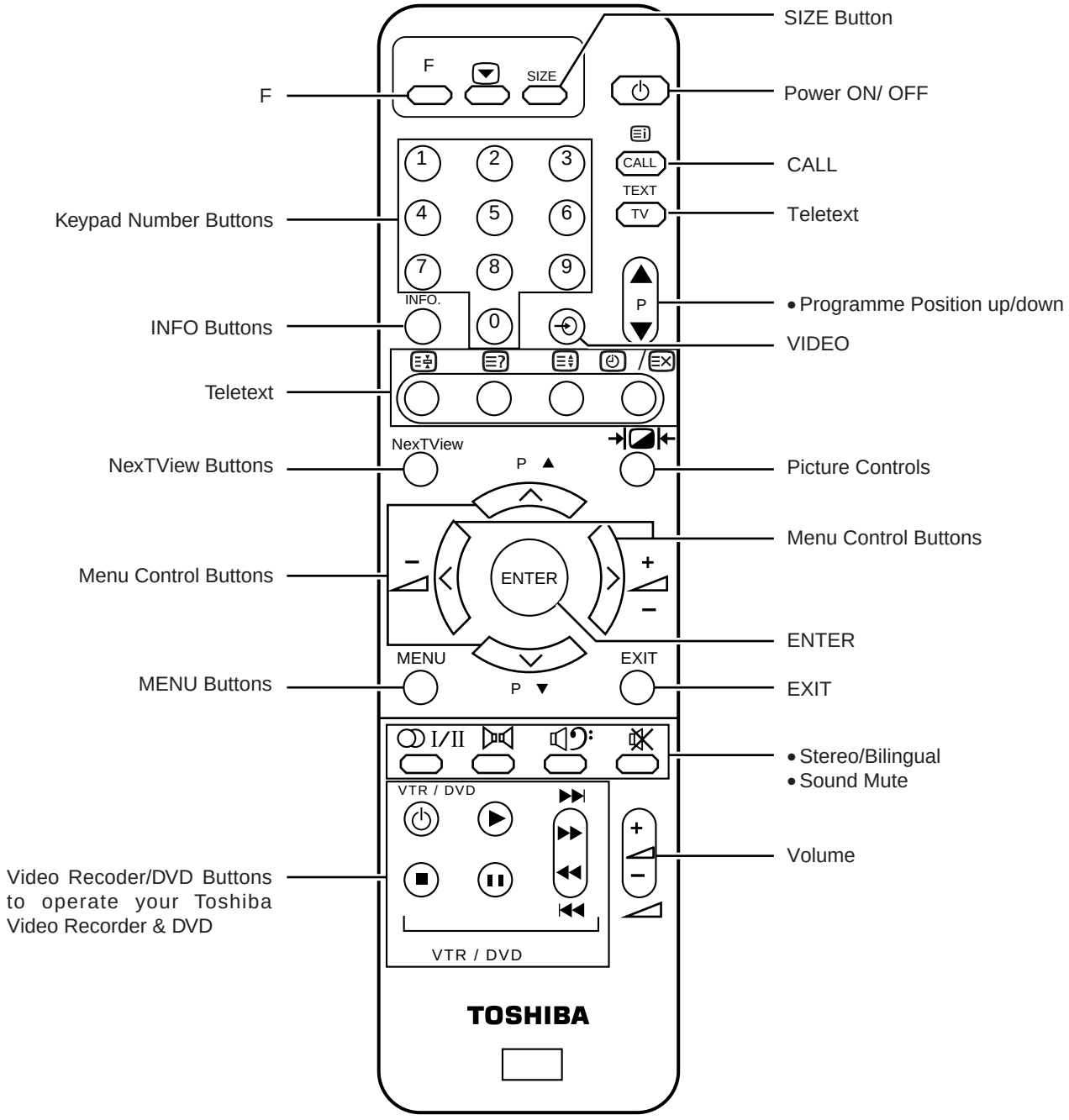
HEAD PHONE
(VIDEO-3) S-VIDEO TERMINAL
VIDEO-3
MENU
VOLUME DOWN
VOLUME UP
POSITION DOWN

MAIN SWITCH
POWER (RED)
ON TIMER (GREEN)
BILINGUAL (ORANGE)
STEREO (GREEN)
EXIT
POSITION UP

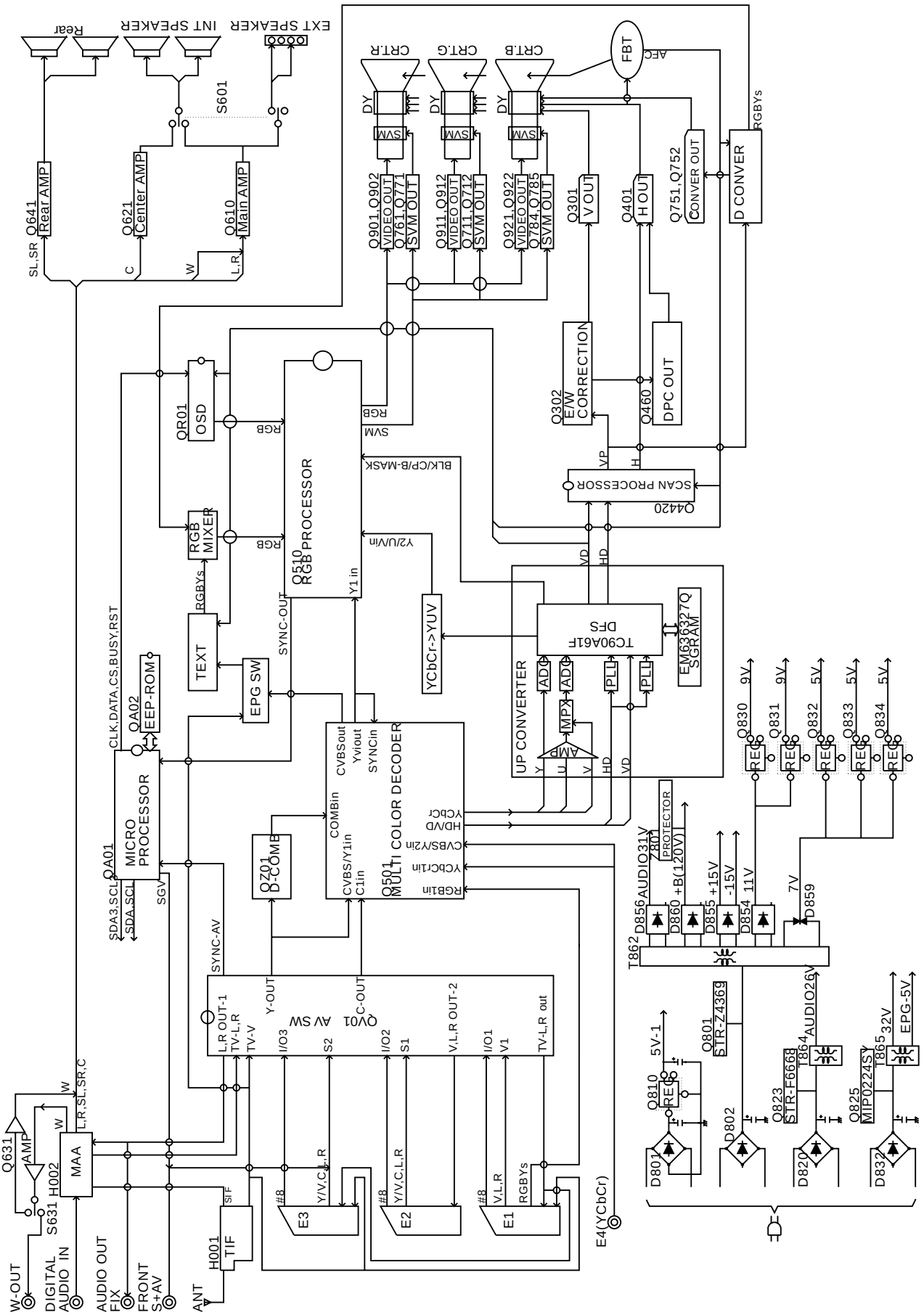
Back



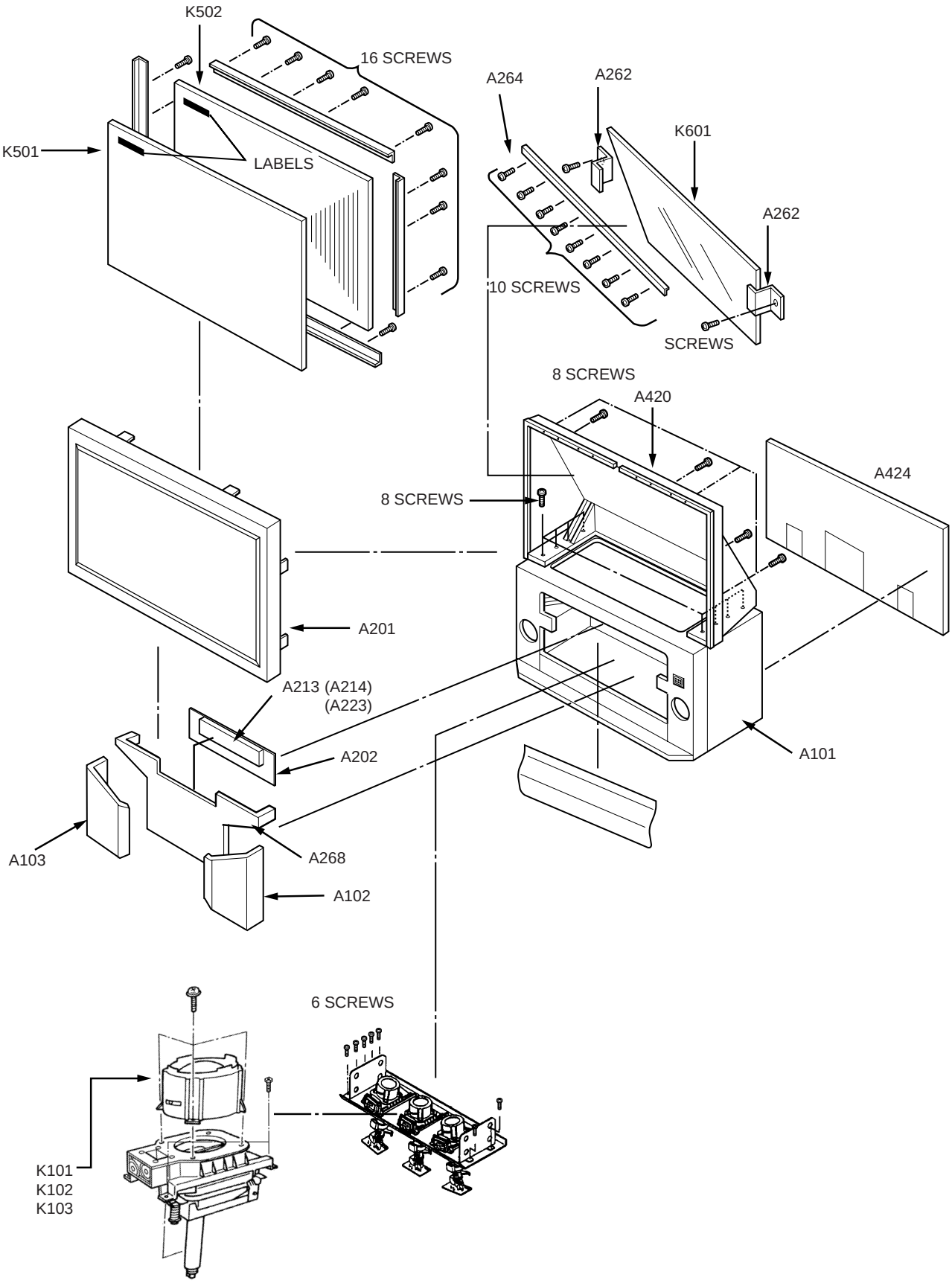
Remote Controller



CIRCUIT BLOCK DIAGRAM



MECHANICAL DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ⋆ mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Models :40WH08G, 40WH08B

Location No.	Part No.	Description
CAPACITORS		
C102	24763221	EL, 220μF, ±20%, 16V
C105	24212102	CD, 1000pF, ±10%
C106	24797100	EL, 10μF, ±20%, 50V
C108	24763221	EL, 220μF, ±20%, 16V
C109	24232103	CD, 0.01μF, +80%, -20%
C110	24797479	EL, 4.7μF, ±20%, 50V
C111	24797220	EL, 22μF, ±20%, 50V
C115	24232103	CD, 0.01μF, +80%, -20%
C201	24567104	PF, 0.1μF
C202	24232103	CD, 0.01μF, +80%, -20%
C203	24567104	PF, 0.1μF
C204	24669010	EL, 1μF, ±20%, 50V
C205	24669229	EL, 2.2μF, ±20%, 50V
C206	24206220	EL, 22μF, ±20%, 50V
C212	24794100	EL, 10μF, ±20%, 16V
C214	24567334	PF, 0.33μF
C215	24436101	CD, 100pF
C219	24436100	CD, 10pF, ±0.25pF
C220	24436100	CD, 10pF, ±0.25pF
C221	24436100	CD, 10pF, ±0.25pF
C229	24092398	CD, 0.1μF, +80%, -20%, 25V
C230	24232103	CD, 0.01μF, +80%, -20%
C232	24092398	CD, 0.1μF, +80%, -20%, 25V
C261	24669101	EL, 100μF, ±20%, 50V
C262	24232103	CD, 0.01μF, +80%, -20%
C263	24794470	EL, 47μF, ±20%, 16V
C264	24794100	EL, 10μF, ±20%, 16V
C301	24567683	PF, 0.068μF
C302	24567224	PF, 0.22μF
C304	24567104	PF, 0.1μF
C305	24567103	PF, 0.01μF
C306	24591102	PF, 1000pF
C307	24617915	EL, 1μF, ±10%, 50V
C308	24591203	PF, 0.02μF
C309	24591102	PF, 1000pF
C310	24669101	EL, 100μF, ±20%, 50V
C311	24567103	PF, 0.01μF
C312	24591102	PF, 1000pF
C313	24666101	EL, 100μF, ±20%, 16V
C314	24567104	PF, 0.1μF

Location No.	Part No.	Description
C315	24666102	EL, 1000μF, ±20%, 16V
C315	24797478	EL, 0.47μF, ±20%, 50V
C316	24666101	EL, 100μF, ±20%, 16V
C317	24591222	PF, 2200pF
C318	24591182	PF, 0.0018μF
C319	24667101	EL, 100μF, ±20%, 25V
C320	24669101	EL, 100μF, ±20%, 50V
C321	24669101	EL, 100μF, ±20%, 50V
C322	24567393	PF, 0.039μF
C323	24567563	PF, 0.056μF
C324	24669101	EL, 100μF, ±20%, 50V
C325	24082057	PF, 0.22μF, 100V
C326	24567224	PF, 0.22μF
C327	24666101	EL, 100μF, ±20%, 16V
C328	24082260	PF, 4700pF, 100V
C329	24669100	EL, 10μF, ±20%, 50V
C330	24085946	EL, 10μF, ±20%, 16V, Non-Polar
C331	24567103	PF, 0.01μF
C332	24669221	EL, 220μF, ±20%, 50V
C333	24693473	PF, 0.047μF, 100V
C334	24212471	CD, 470pF, ±10%
C335	24567104	PF, 0.1μF
C350	24567474	PF, 0.47μF
C351	24567104	PF, 0.1μF
C370	24669229	EL, 2.2μF, ±20%, 50V
C371	24591623	PF, 0.056μF
C372	24212101	CD, 100pF, ±10%
C401	24214332	CD, 3300pF, ±10%, 500V
C401	24232103	CD, 0.01μF, +80%, -20%
C402	24214391	CD, 390pF, ±10%, 500V
C403	24567223	PF, 0.022μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C405	24567124	PF, 0.12μF
C412	24829823	PF, 0.082μF, 400V
C415	24092478	CD, 470pF, ±10%, 2kV
C416	24676220	EL, 22μF, ±20%, 100V
C417	24095716	PF, 1.5μF, ±10%, 250V
C423	24095786	PF, 0.33μF, 400V
C424	24763101	EL, 100μF, ±20%, 16V
C425	24095787	PF, 0.3μF, 400V

Location No.	Part No.	Description
C426	24082608	PF, 4700pF, ±3%, 1800V
C430	24232103	CD, 0.01μF, +80%, -20%
C431	24763101	EL, 100μF, ±20%, 16V
C432	24567333	PF, 0.033μF
C440	24082938	PF, 2200pF, ±3%, 1500V
C443	24082946	PF, 4700pF, ±3%, 1500V
C444	24082961	PF, 8200pF, ±3%, 1500V
C445	24828473	PF, 0.047μF, 200V
C446	24679330	EL, 33μF, ±20%, 250V
C448	24640908	EL, 33μF, ±20%, 160V
C449	24214221	CD, 220pF, ±10%, 500V
C460	24679330	EL, 33μF, ±20%, 250V
C464	24095900	PF, 3.3μF, ±10%, 100V
C465	24567103	PF, 0.01μF
C466	24591332	PF, 3300pF
C469	24567474	PF, 0.47μF
C470	24095900	PF, 3.3μF, ±10%, 100V
C471	24669479	EL, 4.7μF, ±20%, 50V
C481	24666101	EL, 100μF, ±20%, 16V
C482	24591223	PF, 0.022μF
C483	24591472	PF, 4700pF
C484	24591471	PF, 470pF
C485	24567104	PF, 0.1μF
C501	24092293	Chip, 0.1μF, +80%, -20%, 25V
C502	24092293	Chip, 0.1μF, +80%, -20%, 25V
C502	24232103	CD, 0.01μF, +80%, -20%
C503	24763221	EL, 220μF, ±20%, 16V
C503	24794470	EL, 47μF, ±20%, 16V
C504	24814103	Chip, 0.01μF, +80%, -20%
C505	24794470	EL, 47μF, ±20%, 16V
C506	24814103	Chip, 0.01μF, +80%, -20%
C507	24092293	Chip, 0.1μF, +80%, -20%, 25V
C508	24092293	Chip, 0.1μF, +80%, -20%, 25V
C508	24669010	EL, 1μF, ±20%, 50V
C509	24092293	Chip, 0.1μF, +80%, -20%, 25V
C509	24763101	EL, 100μF, ±20%, 16V
C510	24763101	EL, 100μF, ±20%, 16V
C510	24797479	EL, 4.7μF, ±20%, 50V
C511	24092293	Chip, 0.1μF, +80%, -20%, 25V
C511	24232103	CD, 0.01μF, +80%, -20%
C512	24092293	Chip, 0.1μF, +80%, -20%, 25V
C513	24092293	Chip, 0.1μF, +80%, -20%, 25V
C513	24232103	CD, 0.01μF, +80%, -20%
C514	24567104	PF, 0.1μF
C514	24794470	EL, 47μF, ±20%, 16V
C515	24567104	PF, 0.1μF
C515	24814103	Chip, 0.01μF, +80%, -20%
C516	24774100	Chip, 10pF, ±0.5pF, CH
C517	24797478	EL, 0.47μF, ±20%, 50V
C518	24436101	CD, 100pF
C518	24814103	Chip, 0.01μF, +80%, -20%
C519	24092293	Chip, 0.1μF, +80%, -20%, 25V
C520	24212102	CD, 1000pF, ±10%
C520	24797229	EL, 2.2μF, ±20%, 50V
C521	24212102	CD, 1000pF, ±10%
C521	24567223	PF, 0.022μF
C522	24814103	Chip, 0.01μF, +80%, -20%
C525	24567104	PF, 0.1μF
C555	24092398	CD, 0.1μF, +80%, -20%, 25V
C556	24669010	EL, 1μF, ±20%, 50V
C608	24762222	EL, 2200μF, ±20%, 10V
C609	24666471	EL, 470μF, ±20%, 16V
C610	24591102	PF, 1000pF
C611	24591102	PF, 1000pF

Location No.	Part No.	Description
C612	24669100	EL, 10μF, ±20%, 50V
C613	24669100	EL, 10μF, ±20%, 50V
C614	24669102	EL, 1000μF, ±20%, 50V
C615	24669102	EL, 1000μF, ±20%, 50V
C616	24591124	PF, 0.12μF
C617	24591124	PF, 0.12μF
C618	24669478	EL, 0.47μF, ±20%, 50V
C619	24665220	EL, 22μF, ±20%, 10V
C620	24667470	EL, 47μF, ±20%, 25V
C621	24667470	EL, 47μF, ±20%, 25V
C622	24667470	EL, 47μF, ±20%, 25V
C623	24669479	EL, 4.7μF, ±20%, 50V
C624	24232103	CD, 0.01μF, +80%, -20%
C625	24669102	EL, 1000μF, ±20%, 50V
C626	24667470	EL, 47μF, ±20%, 25V
C627	24667470	EL, 47μF, ±20%, 25V
C628	24667470	EL, 47μF, ±20%, 25V
C629	24591124	PF, 0.12μF
C630	24591124	PF, 0.12μF
C631	24567474	PF, 0.47μF
C631	24668102	EL, 1000μF, ±20%, 35V
C632	24206100	EL, 10μF, ±20%, 50V
C632	24668102	EL, 1000μF, ±20%, 35V
C633	24591683	PF, 0.068μF
C634	24206100	EL, 10μF, ±20%, 50V
C635	24100103	Chip, 0.01μF, +80%, -20%
C635	24669010	EL, 1μF, ±20%, 50V
C636	24206100	EL, 10μF, ±20%, 50V
C637	24667470	EL, 47μF, ±20%, 25V
C637	24765101	EL, 100μF, ±20%, 35V
C638	24100103	Chip, 0.01μF, +80%, -20%
C638	24669100	EL, 10μF, ±20%, 50V
C639	24567103	PF, 0.01μF
C639	24669100	EL, 10μF, ±20%, 50V
C640	24206100	EL, 10μF, ±20%, 50V
C641	24206220	EL, 22μF, ±20%, 50V
C642	24206478	EL, 0.47μF, ±20%, 50V
C643	24109102	Chip, 1000pF, ±10%
C643	24667470	EL, 47μF, ±20%, 25V
C644	24669100	EL, 10μF, ±20%, 50V
C645	24669100	EL, 10μF, ±20%, 50V
C646	24667470	EL, 47μF, ±20%, 25V
C647	24667470	EL, 47μF, ±20%, 25V
C648	24667470	EL, 47μF, ±20%, 25V
C649	24591124	PF, 0.12μF
C650	24591124	PF, 0.12μF
C651	24668102	EL, 1000μF, ±20%, 35V
C652	24668102	EL, 1000μF, ±20%, 35V
C660	24668102	EL, 1000μF, ±20%, 35V
C661	24591122	PF, 1200pF
C662	24591102	PF, 1000pF
C664	24591823	PF, 0.082μF
C665	24206229	EL, 2.2μF, ±20%, 50V
C666	24206229	EL, 2.2μF, ±20%, 50V
C667	24591102	PF, 1000pF
C668	24669479	EL, 4.7μF, ±20%, 50V
C673	24109102	Chip, 1000pF, ±10%
C674	24109102	Chip, 1000pF, ±10%
C678	24109102	Chip, 1000pF, ±10%
C679	24109102	Chip, 1000pF, ±10%
C681	24109102	Chip, 1000pF, ±10%
C681	24669010	EL, 1μF, ±20%, 50V
C682	24109102	Chip, 1000pF, ±10%
C682	24669479	EL, 4.7μF, ±20%, 50V

Location No.	Part No.	Description
C683	24669479	EL, 4.7μF, ±20%, 50V
C685	24591102	PF, 1000pF
C704	24232103	CD, 0.01μF, +80%, -20%
C705	24206479	EL, 4.7μF, ±20%, 50V
C707	24797470	EL, 47μF, ±20%, 50V
C712	24797470	EL, 47μF, ±20%, 50V
C713	24790470	EL, 47μF, ±20%, 160V
C715	24214472	CD, 4700pF, ±10%, 500V
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24666470	EL, 47μF, ±20%, 16V
C719	24435560	CD, 56pF, 500V
C720	24790220	EL, 22μF, ±20%, 160V
C721	24666470	EL, 47μF, ±20%, 16V
C726	24212102	CD, 1000pF, ±10%
C760	24797470	EL, 47μF, ±20%, 50V
C761	24212102	CD, 1000pF, ±10%
C762	24797470	EL, 47μF, ±20%, 50V
C765	24214472	CD, 4700pF, ±10%, 500V
C766	24214472	CD, 4700pF, ±10%, 500V
C767	24790470	EL, 47μF, ±20%, 160V
C768	24666470	EL, 47μF, ±20%, 16V
C769	24666470	EL, 47μF, ±20%, 16V
C770	24435560	CD, 56pF, 500V
C771	24790220	EL, 22μF, ±20%, 160V
C780	24797470	EL, 47μF, ±20%, 50V
C781	24212102	CD, 1000pF, ±10%
C782	24797470	EL, 47μF, ±20%, 50V
C784	24214472	CD, 4700pF, ±10%, 500V
C786	24214472	CD, 4700pF, ±10%, 500V
C787	24790470	EL, 47μF, ±20%, 160V
C788	24666470	EL, 47μF, ±20%, 16V
C789	24666470	EL, 47μF, ±20%, 16V
C790	24435560	CD, 56pF, 500V
C791	24790220	EL, 22μF, ±20%, 160V
⚠C801	24503002	PF, 0.22μF, ±20%, AC275V
⚠C802	24092557	CD, 220pF, ±20%, AC250V
⚠C803	24092557	CD, 220pF, ±20%, AC250V
⚠C804	24092570	CD, 3300pF, ±20%, AC250V
⚠C805	24503002	PF, 0.22μF, ±20%, AC275V
⚠C806	24092557	CD, 220pF, ±20%, AC250V
C807	24073058	EL, 2200μF, ±20%, 25V
C808	24617787	EL, 470μF, ±20%, 16V
C809	24567105	PF, 1μF
C810	24086935	EL, 560μF, ±20%, 400V
C810	24763102	EL, 1000μF, ±20%, 16V
C811	24678478	EL, 0.47μF, ±20%, 200V
C814	24678229	EL, 2.2μF, ±20%, 200V
C815	24567474	PF, 0.47μF
C816	24617817	EL, 22μF, ±20%, 50V
C817	24567224	PF, 0.22μF
C819	24214102	CD, 1000pF, ±10%, 500V
C820	24567224	PF, 0.22μF
C821	24092480	CD, 680pF, ±10%, 2kV
C822	24092481	CD, 820pF, ±10%, 2kV
C823	24092478	CD, 470pF, ±10%, 2kV
C825	24591472	PF, 4700pF
C826	24092474	CD, 220pF, ±10%, 2kV
C828	24820683	PF, 0.068μF, 630V
C829	24617820	EL, 100μF, ±20%, 50V
C830	24567105	PF, 1μF
C830	24669100	EL, 10μF, ±20%, 50V
C831	24666470	EL, 47μF, ±20%, 16V
C831	24669220	EL, 22μF, ±20%, 50V
C832	24669100	EL, 10μF, ±20%, 50V

Location No.	Part No.	Description
C833	24666470	EL, 47μF, ±20%, 16V
C834	24669100	EL, 10μF, ±20%, 50V (40WH08B)
C835	24666470	EL, 47μF, ±20%, 16V (40WH08B)
C836	24669100	EL, 10μF, ±20%, 50V
C837	24666470	EL, 47μF, ±20%, 16V
C838	24669100	EL, 10μF, ±20%, 50V
C839	24666470	EL, 47μF, ±20%, 16V
C858	24214471	CD, 470pF, ±10%, 500V
C859	24214471	CD, 470pF, ±10%, 500V
C860	24668222	EL, 2200μF, ±20%, 35V
C861	24617810	EL, 4700μF, ±20%, 35V
C863	24617810	EL, 4700μF, ±20%, 35V
C864	24677470	EL, 47μF, ±20%, 160V
C865	24667471	EL, 470μF, ±20%, 25V
C866	24667471	EL, 470μF, ±20%, 25V
C869	24669222	EL, 2200μF, ±20%, 50V
C874	24212102	CD, 1000pF, ±10%
C875	24667472	EL, 4700μF, ±20%, 25V
C876	24086916	EL, 330μF, ±20%, 160V
C879	24092475	CD, 270pF, ±10%, 2kV
C880	24092475	CD, 270pF, ±10%, 2kV
C881	24567474	PF, 0.47μF
C882	24617817	EL, 22μF, ±20%, 50V
C883	24082229	PF, 0.1μF, ±10%, 250V
C884	24617816	'EL, 10μF, ±20%, 50V
C885	24617813	EL, 2.2μF, ±20%, 50V
C889	24669010	EL, 1μF, ±20%, 50V
C892	24669229	EL, 2.2μF, ±20%, 50V
C901	24211102	CD, 1000pF, ±10%, 2kV
C902	24794100	EL, 10μF, ±20%, 16V
C903	24232103	CD, 0.01μF, +80%, -20%
C904	24436391	CD, 390pF
C905	24214102	CD, 1000pF, ±10%, 500V
C907	24214101	CD, 100pF, ±10%, 500V
C908	24436390	CD, 39pF
C911	24211102	CD, 1000pF, ±10%, 2kV
C912	24794100	EL, 10μF, ±20%, 16V
C913	24232103	CD, 0.01μF, +80%, -20%
C914	24436471	CD, 470pF
C915	24679330	EL, 33μF, ±20%, 250V
C917	24214101	CD, 100pF, ±10%, 500V
C918	24567104	PF, 0.1μF
C921	24211102	CD, 1000pF, ±10%, 2kV
C922	24794100	EL, 10μF, ±20%, 16V
C923	24436391	CD, 390pF
C924	24232103	CD, 0.01μF, +80%, -20%
C926	24214101	CD, 100pF, ±10%, 500V
C927	24567104	PF, 0.1μF
C928	24794100	EL, 10μF, ±20%, 16V
C961	24794100	EL, 10μF, ±20%, 16V
C962	24794100	EL, 10μF, ±20%, 16V
C963	24567104	PF, 0.1μF
C964	24567104	PF, 0.1μF
C3150	24666102	EL, 1000μF, ±20%, 16V
C4405	24591103	PF, 0.01μF
C4408	24591103	PF, 0.01μF
C4418	24591103	PF, 0.01μF
C4425	24669010	EL, 1μF, ±20%, 50V
C4426	24669101	EL, 100μF, ±20%, 50V
C4430	24669479	EL, 4.7μF, ±20%, 50V
C4447	24591103	PF, 0.01μF
C6101	24232103	CD, 0.01μF, +80%, -20%

Location No.	Part No.	Description
C6101	24669010	EL, 1μF, ±20%, 50V
C6102	24232103	CD, 0.01μF, +80%, -20%
C7704	24667101	EL, 100μF, ±20%, 25V
C7705	24567474	PF, 0.47μF
C7706	24567474	PF, 0.47μF
C7707	24667101	EL, 100μF, ±20%, 25V
C7708	24436150	CD, 15pF
C7709	24436150	CD, 15pF
C7710	24436150	CD, 15pF
C7711	24436150	CD, 15pF
C7712	24436150	CD, 15pF
C7713	24436150	CD, 15pF
C7714	24436150	CD, 15pF
C7715	24436150	CD, 15pF
C7716	24436150	CD, 15pF
C7717	24436150	CD, 15pF
C7718	24436150	CD, 15pF
C7719	24436150	CD, 15pF
C7721	24212102	CD, 1000pF, ±10%
C7722	24436331	CD, 330pF
C7724	24667331	EL, 330μF, ±20%, 25V
C7725	24667331	EL, 330μF, ±20%, 25V
C7726	24212102	CD, 1000pF, ±10%
C7727	24436331	CD, 330pF
C7729	24212102	CD, 1000pF, ±10%
C7730	24436331	CD, 330pF
C7732	24212102	CD, 1000pF, ±10%
C7733	24436331	CD, 330pF
C7735	24667331	EL, 330μF, ±20%, 25V
C7736	24667331	EL, 330μF, ±20%, 25V
C7737	24212102	CD, 1000pF, ±10%
C7738	24436331	CD, 330pF
C7740	24212102	CD, 1000pF, ±10%
C7741	24436331	CD, 330pF
C7751	24667101	EL, 100μF, ±20%, 25V
C7752	24567474	PF, 0.47μF
C7753	24567474	PF, 0.47μF
C7754	24667101	EL, 100μF, ±20%, 25V
C7760	24667470	EL, 47μF, ±20%, 25V
C7761	24667100	EL, 10μF, ±20%, 25V
C7763	24667470	EL, 47μF, ±20%, 25V
C7767	24667101	EL, 100μF, ±20%, 25V
C7768	24667101	EL, 100μF, ±20%, 25V
C7769	24232103	CD, 0.01μF, +80%, -20%
C7770	24667471	EL, 470μF, ±20%, 25V
C7771	24667471	EL, 470μF, ±20%, 25V
C7774	24436101	CD, 100pF
C7776	24667100	EL, 10μF, ±20%, 25V
C7779	24436331	CD, 330pF
⚠C8010	24503001	PF, 0.1μF
⚠C8020	24092553	CD, 470pF, ±20%, AC250V
⚠C8030	24092553	CD, 470pF, ±20%, AC250V
⚠C8040	24092553	CD, 470pF, ±20%, AC250V
C8070	24086072	EL, 100μF, ±20%, 450V
C8080	24095887	PF, 0.01μF, ±3%, 630V
C8090	24232103	CD, 0.01μF, +80%, -20%
C8100	24617822	EL, 330μF, ±20%, 50V
C8110	24436221	CD, 220pF
C8130	24503001	PF, 0.1μF
C8140	24591104	PF, 0.1μF
C8160	24214471	CD, 470pF, ±10%, 500V
C8270	24666332	EL, 3300μF, ±20%, 16V (40WH08G)

Location No.	Part No.	Description
C8290	24617026	EL, 820μF, ±20%, 16V (40WH08G)
C8300	24617816	EL, 10μF, ±20%, 50V (40WH08G)
C8340	24665221	EL, 220μF, ±20%, 10V (40WH08G)
C8370	24092553	CD, 470pF, ±20%, AC250V (40WH08G)
C8380	24092553	CD, 470pF, ±20%, AC250V (40WH08G)
C8390	24092553	CD, 470pF, ±20%, AC250V (40WH08G)
C8400	24503001	PF, 0.1μF (40WH08G)
C8430	24092555	CD, 1000pF, ±20%, AC250V (40WH08G)
C8440	24073101	EL, 47μF, ±20%, 400V (40WH08G)
C8450	24232103	CD, 0.01μF, +80%, -20% (40WH08G)
C8470	24215101	CD, 100pF, ±10%, 1000V (40WH08G)
C8490	24567104	PF, 0.1μF (40WH08G)
C8491	24092555	CD, 1000pF, ±20%, AC250V (40WH08G)
C8492	24617794	EL, 47μF, ±20%, 25V (40WH08G)
C8493	24567104	PF, 0.1μF (40WH08G)
C8494	24640892	EL, 330μF, ±20%, 100V (40WH08G)
C8495	24215101	CD, 100pF, ±10%, 1000V (40WH08G)
C8510	24617812	EL, 1μF, ±20%, 50V
C8520	24073076	EL, 6800μF, ±20%, 35V
⚠C8560	24092553	CD, 470pF, ±20%, AC250V
⚠C8570	24092553	CD, 470pF, ±20%, AC250V
C8590	24591104	PF, 0.1μF
CA03	24436180	CD, 18pF (40WH08G)
CA04	24436180	CD, 18pF (40WH08G)
CA09	24436101	CD, 100pF
CA10	24436101	CD, 100pF
CA12	24436101	CD, 100pF
CA13	24474101	CD, 100pF, ±10%
CA15	24474101	CD, 100pF, ±10%
CA16	24474101	CD, 100pF, ±10%
CA17	24474101	CD, 100pF, ±10%
CA33	24232103	CD, 0.01μF, +80%, -20%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, -20%
CA58	24794330	EL, 33μF, ±20%, 16V
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, -20%
CA80	24794470	EL, 47μF, ±20%, 16V (40WH08G)
CA81	24232103	CD, 0.01μF, +80%, -20% (40WH08G)
CA83	24085981	EL, 10μF, ±20%, 16V, Non-Polar (40WH08G)
CB01	24794470	EL, 47μF, ±20%, 16V
CB90	24232103	CD, 0.01μF, +80%, -20%
CC01	24100103	Chip, 0.01μF, +80%, -20%
CC01	24212103	CD, 0.01μF, ±10%
CC02	24100103	Chip, 0.01μF, +80%, -20%
CC03	24100102	Chip, 1000pF, +80%, -20%
CC04	24100102	Chip, 1000pF, +80%, -20%

Location No.	Part No.	Description
CC20	24781220	Chip, 22pF, SL
CC26	24232103	CD, 0.01μF, +80%, -20%
CC27	24232103	CD, 0.01μF, +80%, -20%
CC30	24100103	Chip, 0.01μF, +80%, -20%
CC32	24100103	Chip, 0.01μF, +80%, -20%
CC33	24474101	CD, 100pF, ±10%
CC45	24109102	Chip, 1000pF, ±10%
CC46	24109102	Chip, 1000pF, ±10%
CC89	24108151	Chip, 150pF
CD85	24100104	Chip, 0.1μF, +80%, -20%, 25V
CD86	24793221	EL, 220μF, ±20%, 10V
CD87	24109222	Chip, 2200pF, ±10%
CD88	24794100	EL, 10μF, ±20%, 16V
CD89	24100104	Chip, 0.1μF, +80%, -20%, 25V
CF02	24774220	Chip, 22pF, CH(40WH08G)
CF03	24774220	Chip, 22pF, CH(40WH08G)
CF03	24567104	PF, 0.1μF(40WH08B)
CF04	24766101	EL, 100μF, ±20%, 50V (40WH08B)
CF05	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF05	24766101	EL, 100μF, ±20%, 50V (40WH08B)
CF06	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF06	24774220	Chip, 22pF, CH(40WH08B)
CF07	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF07	24774220	Chip, 22pF, CH(40WH08B)
CF08	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF08	24567104	PF, 0.1μF(40WH08B)
CF09	24567224	PF, 0.22μF (40WH08G)
CF09	24567104	PF, 0.1μF(40WH08B)
CF10	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF10	24206100	EL, 10μF, ±20%, 50V (40WH08B)
CF11	24202101	EL, 100μF, ±20%, 10V (40WH08G)
CF11	24567104	PF, 0.1μF(40WH08B)
CF12	24202101	EL, 100μF, ±20%, 10V (40WH08G)
CF12	24814103	Chip, 0.01μF, +80%, -20% (40WH08B)
CF13	24202101	EL, 100μF, ±20%, 10V (40WH08G)
CF14	24202101	EL, 100μF, ±20%, 10V (40WH08G)
CF14	24814103	Chip, 0.01μF, +80%, -20% (40WH08B)
CF15	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF16	24567224	PF, 0.22μF (40WH08B)
CF17	24781101	Chip, 100pF, SL(40WH08G)
CF18	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF18	24794101	EL, 100μF, ±20%, 16V (40WH08B)
CF19	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF19	24814103	Chip, 0.01μF, +80%, -20% (40WH08B)

Location No.	Part No.	Description
CF20	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF20	24766010	EL, 1μF, ±20%, 50V (40WH08B)
CF21	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF22	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF24	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF25	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF26	24774330	Chip, 33pF, CH(40WH08G)
CF31	24203100	EL, 10μF, ±20%, 16V (40WH08G)
CF32	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF33	24202101	EL, 100μF, ±20%, 10V (40WH08G)
CF41	24774060	CD, 6pF, ±0.5pF, CH (40WH08G)
CF42	24774060	CD, 6pF, ±0.5pF, CH (40WH08G)
CF43	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF60	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CF61	24092293	Chip, 0.1μF, +80%, -20%, 25V (40WH08G)
CH001	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH004	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH005	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH006	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH007	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH008	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH009	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH010	24092743	Chip, 0.47μF, +80%, -20%, 10V
CH011	24762221	EL, 220μF, ±20%, 10V
CH012	24763101	EL, 100μF, ±20%, 16V
CH013	24763101	EL, 100μF, ±20%, 16V
CH014	24108101	Chip, 100pF
CH017	24108330	Chip, 33pF
CH018	24108330	Chip, 33pF
CH019	24108330	Chip, 33pF
CH020	24108330	Chip, 33pF
CH040	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH041	24108101	Chip, 100pF
CH042	24108101	Chip, 100pF
CH043	24108101	Chip, 100pF
CH044	24108101	Chip, 100pF
CH045	24108101	Chip, 100pF
CH046	24108101	Chip, 100pF
CH047	24108101	Chip, 100pF
CH048	24108101	Chip, 100pF
CH051	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH052	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH053	24105070	Chip, 7pF, ±0.5pF
CH061	24109103	Chip, 0.01μF, ±10%, 25V
CH062	24092730	Chip, 0.1μF, ±10%, 16V
CH063	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH101	24105070	Chip, 7pF, ±0.5pF
CH102	24105070	Chip, 7pF, ±0.5pF
CH120	24100104	Chip, 0.1μF, +80%, -20%, 25V

Location No.	Part No.	Description
CH121	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH122	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH123	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH124	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH125	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH126	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH127	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH128	24108221	Chip, 220pF
CH129	24108221	Chip, 220pF
CH140	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH141	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH142	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH143	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH144	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH145	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH146	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH147	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH148	24108221	Chip, 220pF
CH149	24108221	Chip, 220pF
CH160	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH161	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH162	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH163	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH164	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH165	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH166	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH167	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH168	24108221	Chip, 220pF
CH169	24108221	Chip, 220pF
CH170	24105681	Chip, 680pF
CH171	24105681	Chip, 680pF
CH172	24105331	Chip, 330pF
CH173	24105102	Chip, 1000pF, 25V
CH174	24105391	Chip, 390pF
CH175	24105220	Chip, 22pF
CH176	24105391	Chip, 390pF
CH177	24105220	Chip, 22pF
CH178	24105151	Chip, 150pF
CH179	24105102	Chip, 1000pF, 25V
CH180	24105681	Chip, 680pF
CH181	24105681	Chip, 680pF
CH182	24105391	Chip, 390pF
CH183	24105220	Chip, 22pF
CH184	24105391	Chip, 390pF
CH185	24105220	Chip, 22pF
CH186	24105331	Chip, 330pF
CH187	24105102	Chip, 1000pF, 25V
CH188	24105151	Chip, 150pF
CH189	24105102	Chip, 1000pF, 25V
CH190	24105681	Chip, 680pF
CH191	24105681	Chip, 680pF
CH192	24105391	Chip, 390pF
CH193	24105220	Chip, 22pF
CH194	24105331	Chip, 330pF
CH195	24105102	Chip, 1000pF, 25V
CH196	24105391	Chip, 390pF
CH197	24105220	Chip, 22pF
CH198	24105151	Chip, 150pF
CH199	24105102	Chip, 1000pF, 25V
CH200	24774561	Chip, 560pF, CH
CH201	24105681	Chip, 680pF
CH202	24105220	Chip, 22pF
CH203	24105391	Chip, 390pF
CH204	24105391	Chip, 390pF

Location No.	Part No.	Description
CH205	24105220	Chip, 22pF
CH206	24105331	Chip, 330pF
CH207	24105102	Chip, 1000pF, 25V
CH208	24105151	Chip, 150pF
CH209	24105102	Chip, 1000pF, 25V
CH210	24105681	Chip, 680pF
CH211	24105681	Chip, 680pF
CH212	24105331	Chip, 330pF
CH213	24105102	Chip, 1000pF, 25V
CH223	24105391	Chip, 390pF
CH224	24105220	Chip, 22pF
CH225	24105391	Chip, 390pF
CH226	24105220	Chip, 22pF
CH227	24105151	Chip, 150pF
CH228	24105102	Chip, 1000pF, 25V
CH229	24105681	Chip, 680pF
CH230	24105681	Chip, 680pF
CH231	24105391	Chip, 390pF
CH232	24105220	Chip, 22pF
CH233	24105391	Chip, 390pF
CH234	24105220	Chip, 22pF
CH235	24105331	Chip, 330pF
CH236	24105102	Chip, 1000pF, 25V
CH237	24105151	Chip, 150pF
CH238	24105102	Chip, 1000pF, 25V
CH241	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH242	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH243	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH244	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH245	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH247	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH248	24100104	Chip, 0.1μF, +80%, -20%, 25V
CH249	24092730	Chip, 0.1μF, ±10%, 16V
CH250	24092730	Chip, 0.1μF, ±10%, 16V
CR01	24206010	EL, 1μF, ±20%, 50V
CR02	24232103	CD, 0.01μF, +80%, -20%
CR09	24567104	PF, 0.1μF
CR10	24794470	EL, 47μF, ±20%, 16V
CR11	24567104	PF, 0.1μF
CR12	24567104	PF, 0.1μF
CR13	24567104	PF, 0.1μF
CR14	24567104	PF, 0.1μF
CR18	24567104	PF, 0.1μF
CR19	24567104	PF, 0.1μF
CR20	24567104	PF, 0.1μF
CR99	24212103	CD, 0.01μF, ±10%
CS01	24797229	EL, 2.2μF, ±20%, 50V
CS02	24797229	EL, 2.2μF, ±20%, 50V
CS03	24206229	EL, 2.2μF, ±20%, 50V
CS04	24206229	EL, 2.2μF, ±20%, 50V
CS05	24206229	EL, 2.2μF, ±20%, 50V
CS06	24206229	EL, 2.2μF, ±20%, 50V
CS07	24206229	EL, 2.2μF, ±20%, 50V
CS08	24206229	EL, 2.2μF, ±20%, 50V
CS09	24797229	EL, 2.2μF, ±20%, 50V
CS10	24797229	EL, 2.2μF, ±20%, 50V
CS12	24109102	Chip, 1000pF, ±10%
CS13	24109102	Chip, 1000pF, ±10%
CS14	24206100	EL, 10μF, ±20%, 50V
CS15	24206100	EL, 10μF, ±20%, 50V
CS17	24203100	EL, 10μF, ±20%, 16V
CS18	24203100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, ±20%, 50V
CS22	24203100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CS23	24203100	EL, 10μF, ±20%, 16V
CV02	24092730	Chip, 0.1μF, ±10%, 16V
CV03	24092730	Chip, 0.1μF, ±10%, 16V
CV04	24092730	Chip, 0.1μF, ±10%, 16V
CV05	24100103	Chip, 0.01μF, +80%, -20%
CV06	24092730	Chip, 0.1μF, ±10%, 16V
CV08	24666101	EL, 100μF, ±20%, 16V
CV09	24591473	PF, 0.047μF
CV10	24794220	EL, 22μF, ±20%, 16V
CV12	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV14	24109102	Chip, 1000pF, ±10%
CV15	24109102	Chip, 1000pF, ±10%
CV16	24109102	Chip, 1000pF, ±10%
CV17	24109102	Chip, 1000pF, ±10%
CV18	24109102	Chip, 1000pF, ±10%
CV19	24109102	Chip, 1000pF, ±10%
CV23	24203101	EL, 100μF, ±20%, 16V
CV24	24100103	Chip, 0.01μF, +80%, -20%
CV35	24100103	Chip, 0.01μF, +80%, -20%
CV39	24203101	EL, 100μF, ±20%, 16V
CV40	24100103	Chip, 0.01μF, +80%, -20%
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24203101	EL, 100μF, ±20%, 16V
CV66	24203101	EL, 100μF, ±20%, 16V
CX101	24794470	EL, 47μF, ±20%, 16V
CX102	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX104	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX105	24774330	Chip, 33pF, CH
CX106	24774270	Chip, 270pF, CH
CX107	24774101	Chip, 100pF, CH
CX108	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX111	24092621	Chip, 1μF, ±10%, 10V
CX112	24794100	EL, 10μF, ±20%, 16V
CX113	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX114	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX115	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX116	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX117	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX118	24794100	EL, 10μF, ±20%, 16V
CX119	24794100	EL, 10μF, ±20%, 16V
CX120	24794100	EL, 10μF, ±20%, 16V
CX121	24774330	Chip, 33pF, CH
CX122	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX123	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX124	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX125	24794100	EL, 10μF, ±20%, 16V
CX126	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX128	24092441	Chip, 1μF, +80%, -20%, 16V
CX129	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX130	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX143	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX145	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX148	24774101	Chip, 100pF, CH
CX149	24774470	Chip, 47pF, CH
CX150	24774271	Chip, 270pF, CH
CX151	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX152	24794100	EL, 10μF, ±20%, 16V
CX155	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX156	24794100	EL, 10μF, ±20%, 16V
CX157	24092293	Chip, 0.1μF, +80%, -20%, 25V

Location No.	Part No.	Description
CX159	24092441	Chip, 1μF, +80%, -20%, 16V
CX160	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX163	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX165	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX168	24774101	Chip, 100pF, CH
CX169	24774470	Chip, 47pF, CH
CX170	24774271	Chip, 270pF, CH
CX171	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX172	24794100	EL, 10μF, ±20%, 16V
CX176	24794100	EL, 10μF, ±20%, 16V
CX177	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX179	24092441	Chip, 1μF, +80%, -20%, 16V
CX180	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX184	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX185	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX186	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX187	24794100	EL, 10μF, ±20%, 16V
CX188	24794100	EL, 10μF, ±20%, 16V
CX189	24794100	EL, 10μF, ±20%, 16V
CX190	24774330	Chip, 33pF, CH
CX191	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX192	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX193	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX201	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX202	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX204	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX205	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX206	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX208	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX209	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX211	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX212	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX214	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX215	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX216	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX218	24794471	EL, 470μF, ±20%, 16V
CX221	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX222	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX224	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX225	24794220	EL, 22μF, ±20%, 16V
CX226	24794101	EL, 100μF, ±20%, 16V
CX227	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX228	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX230	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX231	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX232	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX234	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX235	24797229	EL, 2.2μF, ±20%, 50V
CX236	24794101	EL, 100μF, ±20%, 16V
CX237	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX238	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX239	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX240	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX241	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX243	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX244	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX245	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX246	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX247	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX249	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX250	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX251	24794471	EL, 470μF, ±20%, 16V
CX261	24092293	Chip, 0.1μF, +80%, -20%, 25V

Location No.	Part No.	Description
CX262	24774470	Chip, 47pF, CH
CX271	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX301	24794100	EL, 10μF, ±20%, 16V
CX302	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX303	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX305	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX306	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX308	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX309	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX310	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX321	24794100	EL, 10μF, ±20%, 16V
CX323	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX326	24774680	Chip, 68pF, CH
CX328	24774330	Chip, 33pF, CH
CX330	24794470	EL, 47μF, ±20%, 16V
CX341	24794100	EL, 10μF, ±20%, 16V
CX343	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX346	24774181	Chip, 180pF, CH
CX348	24774181	Chip, 180pF, CH
CX361	24794100	EL, 10μF, ±20%, 16V
CX363	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX366	24774181	Chip, 180pF, CH
CX368	24774181	Chip, 180pF, CH
CX401	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX402	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX403	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX404	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX405	24794471	EL, 470μF, ±20%, 16V
CX406	24794471	EL, 470μF, ±20%, 16V
CX407	24774220	Chip, 22pF, CH
CX408	24774220	Chip, 22pF, CH
CX409	24774220	Chip, 22pF, CH
CX410	24774220	Chip, 22pF, CH
CX411	24774220	Chip, 22pF, CH
CX412	24774220	Chip, 22pF, CH
CX421	24774221	Chip, 220pF, CH
CX422	24774221	Chip, 220pF, CH
CX423	24774221	Chip, 220pF, CH
CX424	24774221	Chip, 220pF, CH
CX425	24774221	Chip, 220pF, CH
CX427	24774221	Chip, 220pF, CH
CX428	24774330	Chip, 33pF, CH
CX429	24774330	Chip, 33pF, CH
CX430	24774221	Chip, 220pF, CH
CX431	24073020	EL, 1000μF, ±20%, 10V
CX432	24092294	Chip, 0.33μF, +80%, -20%, 16V
CX433	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX434	24092441	Chip, 1μF, +80%, -20%, 16V
CX435	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX436	24073035	EL, 22μF, ±20%, 16V
CZ01	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ02	24814103	Chip, 0.01μF, +80%, -20%
CZ03	24092442	Chip, 0.47μF, +80%, -20%, 16V
CZ05	24814103	Chip, 0.01μF, +80%, -20%
CZ07	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ09	24781220	Chip, 22pF, SL
CZ10	24781100	Chip, 10pF, ±0.5pF%, SL
CZ11	24781220	Chip, 22pF, SL
CZ12	24814103	Chip, 0.01μF, +80%, -20%
CZ13	24814103	Chip, 0.01μF, +80%, -20%
CZ14	24794100	EL, 10μF, ±20%, 16V
CZ17	24814103	Chip, 0.01μF, +80%, -20%

Location No.	Part No.	Description
CZ19	24781181	Chip, 180pF, SL
CZ20	24814103	Chip, 0.01μF, +80%, -20%
CZ21	24781122	Chip, 1200pF, SL
CZ22	24794100	EL, 10μF, ±20%, 16V
CZ23	24814103	Chip, 0.01μF, +80%, -20%
CZ24	24814103	Chip, 0.01μF, +80%, -20%
CZ25	24794100	EL, 10μF, ±20%, 16V
CZ26	24814103	Chip, 0.01μF, +80%, -20%
CZ28	24814103	Chip, 0.01μF, +80%, -20%
CZ29	24814103	Chip, 0.01μF, +80%, -20%
CZ30	24794100	EL, 10μF, ±20%, 16V
CZ31	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ32	24781101	Chip, 100pF, SL
CZ33	24781270	Chip, 27pF, SL
CZ34	24781101	Chip, 100pF, SL
CZ35	24781270	Chip, 27pF, SL
CZ37	24814103	Chip, 0.01μF, +80%, -20%
CZ45	24781100	Chip, 10pF, ±0.5pF%, SL

RESISTORS

R101	24366101	CF, 100 ohm
R102	24366103	CF, 10k ohm
R204	24366104	CF, 100k ohm
R205	24366101	CF, 100 ohm
R206	24366221	CF, 220 ohm
R210	24366101	CF, 100 ohm
R211	24366101	CF, 100 ohm
R212	24366101	CF, 100 ohm
R213	24366681	CF, 680 ohm
R214	24366681	CF, 680 ohm
R215	24366681	CF, 680 ohm
R216	24366103	CF, 10k ohm
R218	24366101	CF, 100 ohm
R219	24366101	CF, 100 ohm
R220	24366101	CF, 100 ohm
R223	24366472	CF, 4700 ohm
R229	24366472	CF, 4700 ohm
R231	24366222	CF, 2200 ohm
R235	24366222	CF, 2200 ohm
R236	24366101	CF, 100 ohm
R237	24366101	CF, 100 ohm
R238	24366562	CF, 5600 ohm
R241	24367473	CF, 47k ohm, ±2%
R242	24367473	CF, 47k ohm, ±2%
R244	24366823	CF, 82k ohm
R245	24366123	CF, 12k ohm
R246	24366103	CF, 10k ohm
R247	24366102	CF, 1k ohm
R260	24366222	CF, 2200 ohm
R261	24366681	CF, 680 ohm
R262	24366102	CF, 1k ohm
R263	24366102	CF, 1k ohm
R264	24366103	CF, 10k ohm
R265	24366392	CF, 3900 ohm
R266	24366332	CF, 3300 ohm
R267	24366101	CF, 100 ohm
R269	24366391	CF, 390 ohm
R270	24366102	CF, 1k ohm
R271	24366472	CF, 4700 ohm
R271	24872103	Chip, 10k ohm, 1/16W
R272	24872103	Chip, 10k ohm, 1/16W
R301	24366103	CF, 10k ohm
R302	24366101	CF, 100 ohm
R303	24366103	CF, 10k ohm

Location No.	Part No.	Description
R304	24366103	CF, 10k ohm
R305	24322828	MF, 0.82 ohm, 1W
R306	24366123	CF, 12k ohm
R307	24366101	CF, 100 ohm
R308	24366101	CF, 100 ohm
R310	24366562	CF, 5600 ohm
R312	24366103	CF, 10k ohm
R314	24366473	CF, 47k ohm
R315	24366474	CF, 470k ohm
R315	24366821	CF, 820 ohm
R316	24366102	CF, 1k ohm
R319	24366100	CF, 10 ohm
R320	24000249	MF, 47k ohm, 1/4W
R321	24366472	CF, 4700 ohm
R322	24000635	MF, 12k ohm, ±1%, 1/4W
R323	24000635	MF, 12k ohm, ±1%, 1/4W
R324	24366103	CF, 10k ohm
R325	24366472	CF, 4700 ohm
R326	24366103	CF, 10k ohm
R327	24366103	CF, 10k ohm
R328	24000633	MF, 10k ohm, 1/4W
R329	24366103	CF, 10k ohm
R330	24000637	MF, 15k ohm, 1/4W
R331	24019119	MF, 30k ohm, 1/6W
R332	24000525	MF, 4.7k ohm, 1/4W
R333	24366103	CF, 10k ohm
R334	24366102	CF, 1k ohm
R335	24366102	CF, 1k ohm
R336	24366102	CF, 1k ohm
R337	24321129	MF, 1.2 ohm, 1/2W
R338	24366123	CF, 12k ohm
R339	24366393	CF, 39k ohm
R340	24366824	CF, 820k ohm
R341	24366273	CF, 27k ohm
R342	24366822	CF, 8200 ohm
R343	24366102	CF, 1k ohm
R344	24382271	OMF, 270 ohm, 1W
R346	24382391	OMF, 390 ohm, 1W
R347	24366103	CF, 10k ohm
R348	24366103	CF, 10k ohm
R349	24366392	CF, 3900 ohm
R350	24366822	CF, 8200 ohm
R351	24366472	CF, 4700 ohm
R360	24366103	CF, 10k ohm
R362	24366103	CF, 10k ohm
R363	24366682	CF, 6800 ohm
R364	24366103	CF, 10k ohm
R370	24366222	CF, 2200 ohm
R371	24366823	CF, 82k ohm
R372	24366332	CF, 3300 ohm
R373	24366823	CF, 82k ohm
R374	24366104	CF, 100k ohm
R375	24366153	CF, 15k ohm
R376	24366333	CF, 33k ohm
R377	24366102	CF, 1k ohm
R378	24366562	CF, 5600 ohm
R379	24366103	CF, 10k ohm
R380	24366223	CF, 22k ohm
R381	24366822	CF, 8200 ohm
R390	24383561	OMF, 560 ohm, 2W
R391	24383561	OMF, 560 ohm, 2W
R392	24383561	OMF, 560 ohm, 2W
R402	24366102	CF, 1k ohm
R403	24366302	CF, 3k ohm

Location No.	Part No.	Description
R403	24382101	OMF, 100 ohm, 1W
R405	24366101	CF, 100 ohm
R406	24382222	OMF, 2200 ohm, 1W
R407	24366103	CF, 10k ohm
R407	24381100	OMF, 10 ohm, 1/2W
R409	24384220	OMF, 22 ohm, 3W
R410	24384220	OMF, 22 ohm, 3W
R411	24323829	MF, 8.2 ohm, 2W
R412	24383223	OMF, 22k ohm, 2W
R413	24366101	CF, 100 ohm
R414	24019259	FR, 27ohm, 1/4W
R415	24366101	CF, 100 ohm
R416	24384101	OMF, 100 ohm, 3W
R419	24942102	CC, 1k ohm, 1/2W
R421	24382104	OMF, 100k ohm, 1W
R424	24366103	CF, 10k ohm
R431	24383102	OMF, 1k ohm, 2W
R432	24942184	CC, 180k ohm, 1/2W
R433	24942184	CC, 180k ohm, 1/2W
R434	24942184	CC, 180k ohm, 1/2W
R443	24310109	MF, 1.0 ohm, 1/2W
R444	24338398	MF, 0.39 ohm, 1W
R445	24366102	CF, 1k ohm
R446	24366153	CF, 15k ohm
R447	24382473	OMF, 47k ohm, 1W
R448	24366103	CF, 10k ohm
R449	24366152	CF, 1500 ohm
R452	24366102	CF, 1k ohm
R453	24366102	CF, 1k ohm
R460	24366103	CF, 10k ohm
R461	24366103	CF, 10k ohm
R462	24366103	CF, 10k ohm
R463	24366103	CF, 10k ohm
R464	24366472	CF, 4700 ohm
R465	24366474	CF, 470k ohm
R467	24366823	CF, 82k ohm
R468	24366153	CF, 15k ohm
R469	24366101	CF, 100 ohm
R470	24366224	CF, 220k ohm
R471	24000112	FR, 10 ohm, 1/4W
R472	24366562	CF, 5600 ohm
R473	24000633	MF, 10k ohm, 1/4W
R474	24000358	MF, 1k ohm, 1/4W
R475	24366823	CF, 82k ohm
R476	24000151	MF, 750 ohm, 1/4W
R480	24000639	MF, 22k ohm, 1/4W
R481	24366473	CF, 47k ohm
R482	24366223	CF, 22k ohm
R483	24366102	CF, 1k ohm
R484	24366474	CF, 470k ohm
R485	24366103	CF, 10k ohm
R486	24366103	CF, 10k ohm
R488	24366392	CF, 3900 ohm
R489	24366222	CF, 2200 ohm
R490	24366331	CF, 330 ohm
R491	24366682	CF, 6800 ohm
R492	24366272	CF, 2700 ohm
R493	24366152	CF, 1500 ohm
R494	24366102	CF, 1k ohm
R501	24872682	Chip, 6800 ohm, 1/16W
R502	24366101	CF, 100 ohm
R502	24872272	Chip, 2700 ohm, 1/16W
R503	24366101	CF, 100 ohm
R504	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
R505	24872101	Chip, 100 ohm, 1/16W
R506	24872273	Chip, 27k ohm, 1/16W
R507	24872392	Chip, 3900 ohm, 1/16W
R512	24872102	Chip, 1k ohm, 1/16W
R513	24366472	CF, 4700 ohm
R513	24872102	Chip, 1k ohm, 1/16W
R514	24366101	CF, 100 ohm
R514	24872102	Chip, 1k ohm, 1/16W
R515	24872102	Chip, 1k ohm, 1/16W
R516	24872102	Chip, 1k ohm, 1/16W
R517	24872102	Chip, 1k ohm, 1/16W
R518	24366102	CF, 1k ohm
R518	24366681	CF, 680 ohm
R519	24872472	Chip, 4700 ohm, 1/16W
R520	24872103	Chip, 10k ohm, 1/16W
R521	24872103	Chip, 10k ohm, 1/16W
R610	24366392	CF, 3900 ohm
R611	24366392	CF, 3900 ohm
R612	24366472	CF, 4700 ohm
R613	24366472	CF, 4700 ohm
R614	24366222	CF, 2200 ohm
R615	24366222	CF, 2200 ohm
R616	24366229	CF, 2.2 ohm
R617	24366229	CF, 2.2 ohm
R618	24366223	CF, 22k ohm
R619	24366223	CF, 22k ohm
R620	24366104	CF, 100k ohm
R621	24366223	CF, 22k ohm
R622	24366223	CF, 22k ohm
R623	24366223	CF, 22k ohm
R624	24366229	CF, 2.2 ohm
R625	24366104	CF, 100k ohm
R626	24366229	CF, 2.2 ohm
R627	24366103	CF, 10k ohm
R628	24366103	CF, 10k ohm
R631	24366562	CF, 5600 ohm
R631	24552122	OMF, 1200 ohm, 1/2W
R632	24366473	CF, 47k ohm
R632	24872223	Chip, 22k ohm, 1/16W
R633	24366223	CF, 22k ohm
R633	24872101	Chip, 100 ohm, 1/16W
R634	24366562	CF, 5600 ohm
R634	24872332	Chip, 3300 ohm, 1/16W
R635	24872563	Chip, 56k ohm, 1/16W
R636	24872103	Chip, 10k ohm, 1/16W
R637	24872103	Chip, 10k ohm, 1/16W
R638	24872563	Chip, 56k ohm, 1/16W
R639	24872153	Chip, 15k ohm, 1/16W
R640	24872153	Chip, 15k ohm, 1/16W
R641	24872153	Chip, 15k ohm, 1/16W
R642	24872222	Chip, 2200 ohm, 1/16W
R643	24366229	CF, 2.2 ohm
R643	24872104	Chip, 100k ohm, 1/16W
R644	24366229	CF, 2.2 ohm
R644	24872104	Chip, 100k ohm, 1/16W
R645	24872102	Chip, 1k ohm, 1/16W
R646	24872681	Chip, 680 ohm, 1/16W
R647	24872223	Chip, 22k ohm, 1/16W
R648	24872223	Chip, 22k ohm, 1/16W
R662	24366473	CF, 47k ohm
R663	24366562	CF, 5600 ohm
R664	24366223	CF, 22k ohm
R665	24366122	CF, 1200 ohm
R666	24366333	CF, 33k ohm

Location No.	Part No.	Description
R667	24366103	CF, 10k ohm
R671	24366102	CF, 1k ohm
R672	24366102	CF, 1k ohm
R673	24366102	CF, 1k ohm
R675	24366102	CF, 1k ohm
R676	24872223	Chip, 22k ohm, 1/16W
R677	24872223	Chip, 22k ohm, 1/16W
R678	24872223	Chip, 22k ohm, 1/16W
R679	24872223	Chip, 22k ohm, 1/16W
R681	24366223	CF, 22k ohm
R682	24366102	CF, 1k ohm
R683	24366102	CF, 1k ohm
R684	24366103	CF, 10k ohm
R685	24366223	CF, 22k ohm
R686	24366223	CF, 22k ohm
R687	24366224	CF, 220k ohm
R688	24552391	OMF, 390 ohm, 1/2W
R690	24552391	OMF, 390 ohm, 1/2W
R692	24872681	Chip, 680 ohm, 1/16W
R693	24872681	Chip, 680 ohm, 1/16W
R698	24366122	CF, 1200 ohm
R699	24366562	CF, 5600 ohm
R702	24552221	OMF, 220 ohm, 1/2W
R709	24366563	CF, 56k ohm
R713	24366273	CF, 27k ohm
R715	24366333	CF, 33k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366101	CF, 100 ohm
R719	24366100	CF, 10 ohm
R720	24552331	OMF, 330 ohm, 1/2W
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366101	CF, 100 ohm
R724	24366151	CF, 150 ohm
R725	24366821	CF, 820 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24552331	OMF, 330 ohm, 1/2W
R732	24366470	CF, 47 ohm
R733	24366683	CF, 68k ohm
R734	24366470	CF, 47 ohm
R735	24366683	CF, 68k ohm
R736	24553270	OMF, 27 ohm, 1W
R737	24366751	CF, 750 ohm
R738	24366102	CF, 1k ohm
R739	24366751	CF, 750 ohm
R740	24553270	OMF, 27 ohm, 1W
R741	24322399	MF, 3.9 ohm, 1W
R742	24321399	MF, 3.9 ohm, 1/2W
R743	24554221	OMF, 220 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
R761	24366273	CF, 27k ohm
R762	24366563	CF, 56k ohm
R763	24552331	OMF, 330 ohm, 1/2W
R764	24366470	CF, 47 ohm
R765	24552100	OMF, 10 ohm, 1/2W
R766	24366470	CF, 47 ohm
R767	24552221	OMF, 220 ohm, 1/2W
R768	24366751	CF, 750 ohm
R769	24366122	CF, 1200 ohm
R770	24553270	OMF, 27 ohm, 1W
R771	24322399	MF, 3.9 ohm, 1W
R772	24366683	CF, 68k ohm
R773	24366683	CF, 68k ohm

Location No.	Part No.	Description
R774	24366751	CF, 750 ohm
R775	24366122	CF, 1200 ohm
R776	24553270	OMF, 27 ohm, 1W
R777	24321399	MF, 3.9 ohm, 1/2W
R778	24366102	CF, 1k ohm
R779	24554221	OMF, 220 ohm, 2W
R781	24366273	CF, 27k ohm
R782	24366563	CF, 56k ohm
R783	24552221	OMF, 220 ohm, 1/2W
R784	24552100	OMF, 10 ohm, 1/2W
R785	24366470	CF, 47 ohm
R786	24366751	CF, 750 ohm
R787	24366122	CF, 1200 ohm
R788	24366683	CF, 68k ohm
R789	24366683	CF, 68k ohm
R790	24366751	CF, 750 ohm
R791	24366122	CF, 1200 ohm
R792	24366102	CF, 1k ohm
R793	24321399	MF, 3.9 ohm, 1/2W
R794	24553270	OMF, 27 ohm, 1W
R795	24322399	MF, 3.9 ohm, 1W
R796	24554221	OMF, 220 ohm, 2W
R797	24366470	CF, 47 ohm
R798	24552331	OMF, 330 ohm, 1/2W
R799	24553270	OMF, 27 ohm, 1W
R801	24366473	CF, 47k ohm
R802	24366102	CF, 1k ohm
R803	24366683	CF, 68k ohm
R805	24366101	CF, 100 ohm
R806	24366101	CF, 100 ohm
R807	24367273	CF, 27k ohm, ±2%
R808	24552470	OMF, 47 ohm, 1/2W
R809	24321689	MF, 6.8 ohm, 1/2W
R810	24383680	OMF, 68 ohm, 2W
R811	24552121	OMF, 120 ohm, 1/2W
R812	24552390	OMF, 39 ohm, 1/2W
R814	24552821	OMF, 820 ohm, 1/2W
R816	24555333	OMF, 33k ohm, 3W
⚠R819	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R820	24007061	Cement, 1.8 ohm, ±10%, 2W
R821	24045005	Cement, 4.7 ohm, 5W
R822	24366104	CF, 100k ohm
R823	24553820	OMF, 82 ohm, 1W
R830	24366472	CF, 4700 ohm
R830	24366683	CF, 68k ohm(40WH08G)
R831	24366222	CF, 2200 ohm
R836	24366472	CF, 4700 ohm
R837	24366222	CF, 2200 ohm
R851	24545109	FR, 1 ohm, 1/4W
R853	24338828	MF, 0.82 ohm, 1W
R854	24553121	OMF, 120 ohm, 1W
R855	24553271	OMF, 270 ohm, 1W
R856	24366152	CF, 1500 ohm
R857	24381682	OMF, 6800 ohm, 1/2W
R858	24366102	CF, 1k ohm
R859	24382333	OMF, 33k ohm, 1W
⚠R861	24005015	Metal-Glazed Resistor, 8.2M ohm, 1W
R862	24366104	CF, 100k ohm
R863	24366101	CF, 100 ohm
R864	24553333	OMF, 33k ohm, 1W (40WH08B)
R865	24545109	FR, 1 ohm, 1/4W

Location No.	Part No.	Description
R870	24552100	OMF, 10 ohm, 1/2W
R901	24366101	CF, 100 ohm
R903	24942102	CC, 1k ohm, 1/2W
R905	24366470	CF, 47 ohm
R906	24366331	CF, 330 ohm
R908	24366680	CF, 68 ohm
R909	24366470	CF, 47 ohm
R911	24366101	CF, 100 ohm
R912	24019416	MF, 0.1 ohm, 1/2W
R913	24942102	CC, 1k ohm, 1/2W
R915	24366330	CF, 33 ohm
R916	24366331	CF, 330 ohm
R918	24366470	CF, 47 ohm
R919	24366470	CF, 47 ohm
R920	24366153	CF, 15k ohm
R921	24366101	CF, 100 ohm
R923	24942102	CC, 1k ohm, 1/2W
R925	24366470	CF, 47 ohm
R926	24366331	CF, 330 ohm
R927	24366100	CF, 10 ohm
R928	24366680	CF, 68 ohm
R929	24366470	CF, 47 ohm
R930	24366153	CF, 15k ohm
R931	24383153	OMF, 15k ohm, 2W
R932	24383153	OMF, 15k ohm, 2W
R933	24000945	FR, 1.8 ohm, 2W
R935	24366150	CF, 15 ohm
R936	24383153	OMF, 15k ohm, 2W
R937	24383153	OMF, 15k ohm, 2W
R938	24366150	CF, 15 ohm
R941	24554153	OMF, 15k ohm, 2W
R942	24554153	OMF, 15k ohm, 2W
R943	24554153	OMF, 15k ohm, 2W
R944	24383153	OMF, 15k ohm, 2W
R945	24366150	CF, 15 ohm
R948	24366562	CF, 5600 ohm
R949	24366153	CF, 15k ohm
R951	24554153	OMF, 15k ohm, 2W
R952	24554153	OMF, 15k ohm, 2W
R953	24554153	OMF, 15k ohm, 2W
R954	24383153	OMF, 15k ohm, 2W
R956	24366101	CF, 100 ohm
R959	24366150	CF, 15 ohm
R961	24366102	CF, 1k ohm
R962	24366361	CF, 360 ohm
R964	24366332	CF, 3300 ohm
R965	24366471	CF, 470 ohm
R966	24366331	CF, 330 ohm
R967	24366681	CF, 680 ohm
R968	24366470	CF, 47 ohm
R969	24366683	CF, 68k ohm
R970	24366393	CF, 39k ohm
R971	24367821	CF, 820 ohm, ±2%
R972	24367471	CF, 470 ohm, ±2%
R973	24367681	CF, 680 ohm, ±2%
R974	24367681	CF, 680 ohm, ±2%
R975	24366561	CF, 560 ohm
R976	24367272	CF, 2.7k ohm, ±2%
R977	24367512	CF, 5100 ohm, ±2%
R978	24367391	CF, 390 ohm, ±2%
R983	24366681	CF, 680 ohm
R984	24366821	CF, 820 ohm
R985	24366821	CF, 820 ohm
R986	24366821	CF, 820 ohm

Location No.	Part No.	Description
R987	24366470	CF, 47 ohm
R991	24366822	CF, 8200 ohm
R992	24366153	CF, 15k ohm
R4222	24366472	CF, 4700 ohm
R4223	24366103	CF, 10k ohm
R4224	24366272	CF, 2700 ohm
R4225	24366102	CF, 1k ohm
R4403	24366101	CF, 100 ohm
R4404	24366101	CF, 100 ohm
R4406	24366752	CF, 7500 ohm
R4407	24366361	CF, 360 ohm
R4410	24366103	CF, 10k ohm
R4416	24366101	CF, 100 ohm
R4417	24366101	CF, 100 ohm
R4418	24366102	CF, 1k ohm
R4422	24366101	CF, 100 ohm
R4425	24381471	OMF, 470 ohm, 1/2W
R4426	24366152	CF, 1500 ohm
R4427	24366102	CF, 1k ohm
R4430	24366102	CF, 1k ohm
R4431	24366682	CF, 6800 ohm
R4432	24366182	CF, 1800 ohm
R4811	24366102	CF, 1k ohm
R6104	24366473	CF, 47k ohm
R6105	24366473	CF, 47k ohm
R7707	24366472	CF, 4700 ohm
R7708	24366472	CF, 4700 ohm
R7710	24366102	CF, 1k ohm
R7710	24384680	OMF, 68 ohm, 3W
R7711	24323129	MF, 1.2 ohm, 2W
R7712	24366472	CF, 4700 ohm
R7713	24366472	CF, 4700 ohm
R7715	24384680	OMF, 68 ohm, 3W
R7716	24323129	MF, 1.2 ohm, 2W
R7717	24366472	CF, 4700 ohm
R7718	24366472	CF, 4700 ohm
R7720	24384680	OMF, 68 ohm, 3W
R7721	24323129	MF, 1.2 ohm, 2W
R7722	24366472	CF, 4700 ohm
R7723	24366472	CF, 4700 ohm
R7725	24384680	OMF, 68 ohm, 3W
R7726	24323129	MF, 1.2 ohm, 2W
R7727	24366472	CF, 4700 ohm
R7728	24366472	CF, 4700 ohm
R7730	24384680	OMF, 68 ohm, 3W
R7731	24323129	MF, 1.2 ohm, 2W
R7732	24366472	CF, 4700 ohm
R7733	24366472	CF, 4700 ohm
R7735	24384680	OMF, 68 ohm, 3W
R7736	24323129	MF, 1.2 ohm, 2W
R7741	24366471	CF, 470 ohm
R7742	24366222	CF, 2200 ohm
R7743	24366223	CF, 22k ohm
R7744	24366102	CF, 1k ohm
R7745	24366222	CF, 2200 ohm
R7746	24366223	CF, 22k ohm
R7747	24366222	CF, 2200 ohm
R7749	24366331	CF, 330 ohm
R7750	24323228	MF, 0.22 ohm, 2W
R7751	24366471	CF, 470 ohm
R7754	24366472	CF, 4700 ohm
R7755	24366472	CF, 4700 ohm
R7757	24366223	CF, 22k ohm
R7758	24366222	CF, 2200 ohm

Location No.	Part No.	Description
R7760	24366103	CF, 10k ohm
R7761	24366103	CF, 10k ohm
R7762	24366103	CF, 10k ohm
R7763	24366471	CF, 470 ohm
R7764	24366331	CF, 330 ohm
R7765	24323338	MF, 0.33 ohm, 2W
R7766	24366223	CF, 22k ohm
R7767	24366153	CF, 15k ohm
R7768	24366100	CF, 10 ohm
R7771	24366102	CF, 1k ohm
R7772	24366102	CF, 1k ohm
R7775	24366273	CF, 27k ohm
R7776	24366472	CF, 4700 ohm
R7777	24366273	CF, 27k ohm
R7778	24366472	CF, 4700 ohm
R7779	24366102	CF, 1k ohm
R7780	24366102	CF, 1k ohm
R7781	24366333	CF, 33k ohm
R7793	24366224	CF, 220k ohm
R7797	24366472	CF, 4700 ohm
R7798	24366103	CF, 10k ohm
R7799	24366222	CF, 2200 ohm
R8010	24366684	CF, 680k ohm
R8020	24366564	CF, 560k ohm
R8040	24555683	OMF, 68k ohm, 3W
R8050	24383470	OMF, 47 ohm, 2W
R8060	24366102	CF, 1k ohm
R8070	24366102	CF, 1k ohm
R8100	24366103	CF, 10k ohm
R8110	24366222	CF, 2200 ohm
R8120	24366102	CF, 1k ohm
R8130	24383683	OMF, 68k ohm, 2W
R8140	24019466	MF, 0.39 ohm, 2W
R8150	24338279	MF, 2.7 ohm, 1W
R8190	24366681	CF, 680 ohm
R8200	24366560	CF, 56 ohm (40WH08G)
R8240	24000529	MF, 6800 ohm, 1/4W (40WH08G)
R8260	24000529	MF, 6800 ohm, 1/4W (40WH08G)
R8261	24366473	CF, 47k ohm (40WH08G)
R8280	24366222	CF, 2200 ohm (40WH08G)
R8520	24366101	CF, 100 ohm
R8530	24366562	CF, 5600 ohm
R8540	24545109	FR, 1 ohm, 1/4W
R8560	24366333	CF, 33k ohm
R8570	24366102	CF, 1k ohm
R8580	24366152	CF, 1500 ohm
R8581	24366151	CF, 150 ohm (40WH08G)
R8610	24554152	OMF, 1500 ohm, 2W (40WH08G)
R8620	24546209	FR, 2 ohm, 1/2W (40WH08G)
R8630	24554102	OMF, 1k ohm, 2W (40WH08G)
R9501	24366470	CF, 47 ohm
R9502	24366470	CF, 47 ohm
R9503	24366681	CF, 680 ohm
R9504	24366683	CF, 68k ohm
R9505	24366393	CF, 39k ohm
R9506	24366681	CF, 680 ohm
R9601	24366470	CF, 47 ohm
R9602	24366392	CF, 3900 ohm
R9603	24366332	CF, 3300 ohm
R9604	24366272	CF, 2700 ohm
R9605	24366682	CF, 6800 ohm

Location No.	Part No.	Description
R9606	24366272	CF, 2700 ohm
R9607	24366470	CF, 47 ohm
R9608	24366681	CF, 680 ohm
R9609	24366683	CF, 68k ohm
R9610	24366393	CF, 39k ohm
R9611	24366681	CF, 680 ohm
R9612	24366470	CF, 47 ohm
R9613	24366330	CF, 33 ohm
R9614	24366330	CF, 33 ohm
RA01	24366102	CF, 1k ohm
RA02	24366103	CF, 10k ohm
RA03	24366102	CF, 1k ohm
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366682	CF, 6800 ohm
RA10	24366682	CF, 6800 ohm
RA11	24366331	CF, 330 ohm
RA12	24366331	CF, 330 ohm
RA13	24366153	CF, 15k ohm
RA14	24366102	CF, 1k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA19	24366331	CF, 330 ohm
RA20	24366331	CF, 330 ohm
RA21	24366331	CF, 330 ohm
RA22	24366331	CF, 330 ohm
RA23	24366472	CF, 4700 ohm
RA24	24366472	CF, 4700 ohm
RA25	24366103	CF, 10k ohm
RA26	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA28	24366102	CF, 1k ohm
RA29	24366102	CF, 1k ohm
RA30	24366102	CF, 1k ohm
RA31	24366561	CF, 560 ohm
RA33	24366103	CF, 10k ohm
RA35	24366102	CF, 1k ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA40	24366331	CF, 330 ohm
RA41	24366273	CF, 27k ohm
RA43	24366102	CF, 1k ohm
RA44	24366103	CF, 10k ohm
RA60	24366470	CF, 47 ohm
RA62	24366102	CF, 1k ohm
RA63	24366102	CF, 1k ohm
RA65	24366103	CF, 10k ohm
RA66	24366103	CF, 10k ohm
RA67	24366472	CF, 4700 ohm
RA68	24366472	CF, 4700 ohm
RA69	24366103	CF, 10k ohm
RA70	24366333	CF, 33k ohm
RA71	24366102	CF, 1k ohm
RA71	24366683	CF, 68k ohm
RA72	24366102	CF, 1k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA76	24366103	CF, 10k ohm
RA77	24366223	CF, 22k ohm

Location No.	Part No.	Description
RA78	24366102	CF, 1k ohm
RA78	24366683	CF, 68k ohm
RA80	24366331	CF, 330 ohm (40WH08G)
RA81	24366331	CF, 330 ohm (40WH08G)
RA82	24366103	CF, 10k ohm (40WH08G)
RA89	24366152	CF, 1500 ohm (40WH08G)
RB01	24366271	CF, 270 ohm
RB02	24366471	CF, 470 ohm
RB03	24366101	CF, 100 ohm
RB04	24366223	CF, 22k ohm
RB05	24366223	CF, 22k ohm
RB07	24366271	CF, 270 ohm
RB08	24366271	CF, 270 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB12	24366471	CF, 470 ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RC01	24000824	Chip, Jumper, 2125 type
RC02	24000824	Chip, Jumper, 2125 type
RD06	24366102	CF, 1k ohm (40WH08G)
RD08	24366102	CF, 1k ohm
RD10	24366102	CF, 1k ohm (40WH08G)
RD16	24366333	CF, 33k ohm
RD28	24366102	CF, 1k ohm
RD85	24872151	Chip, 150 ohm, 1/16W
RD87	24872151	Chip, 150 ohm, 1/16W
RD88	24872222	Chip, 2200 ohm, 1/16W
RD89	24872151	Chip, 150 ohm, 1/16W
RF01	24872332	Chip, 3300 ohm, 1/16W (40WH08B)
RF03	24872682	Chip, 6800 ohm, 1/16W (40WH08B)
RF04	24872223	Chip, 22k ohm, 1/16W (40WH08B)
RF05	24872682	Chip, 6800 ohm, 1/16W (40WH08G)
RF06	24872223	Chip, 22k ohm, 1/16W (40WH08G)
RF06	24872102	Chip, 1k ohm, 1/16W (40WH08B)
RF07	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF08	23103832	Chip (Ferrite Bead), TEM2125M (40WH08B)
RF09	24872683	Chip, 68k ohm, 1/16W (40WH08G)
RF09	23103832	Chip (Ferrite Bead), TEM2125M (40WH08B)

Location No.	Part No.	Description
RF10	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF10	23103832	Chip (Ferrite Bead), TEM2125M (40WH08B)
RF11	24872471	Chip, 470 ohm, 1/16W (40WH08G)
RF11	24872103	Chip, 10k ohm, 1/16W (40WH08B)
RF12	24872104	Chip, 100k ohm, 1/16W (40WH08G)
RF12	24872101	Chip, 100 ohm, 1/16W (40WH08B)
RF13	24872101	Chip, 100 ohm, 1/16W (40WH08B)
RF14	24872101	Chip, 100 ohm, 1/16W (40WH08B)
RF15	24872103	Chip, 10k ohm, 1/16W (40WH08B)
RF16	24872152	Chip, 1500 ohm, 1/16W (40WH08G)
RF16	24872471	Chip, 470 ohm, 1/16W (40WH08B)
RF17	24872102	Chip, 1k ohm, 1/16W (40WH08G)
RF18	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF19	24872102	Chip, 1k ohm, 1/16W (40WH08G)
RF20	24872101	Chip, 100 ohm, 1/16W (40WH08G)
RF20	24872152	Chip, 1500 ohm, 1/16W (40WH08B)
RF21	24872101	Chip, 100 ohm, 1/16W (40WH08G)
RF21	24000824	Chip, Jumper, 2125 type (40WH08B)
RF22	24872101	Chip, 100 ohm, 1/16W (40WH08G)
RF22	24872102	Chip, 1k ohm, 1/16W (40WH08B)
RF23	24872101	Chip, 100 ohm, 1/16W (40WH08G)
RF24	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF25	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF26	24872102	Chip, 1k ohm, 1/16W (40WH08B)
RF31	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF32	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF32	24872101	Chip, 100 ohm, 1/16W (40WH08B)
RF33	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF34	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF34	24872102	Chip, 1k ohm, 1/16W (40WH08B)
RF36	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF37	24872103	Chip, 10k ohm, 1/16W (40WH08G)

Location No.	Part No.	Description
RF38	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF39	24872472	Chip, 4700 ohm, 1/16W (40WH08B)
RF41	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF42	24872473	Chip, 47k ohm, 1/16W (40WH08G)
RF43	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF44	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF45	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF46	24872471	Chip, 470 ohm, 1/16W (40WH08G)
RF47	24000824	Chip, Jumper, 2125 type (40WH08G)
RF49	24872472	Chip, 4700 ohm, 1/16W (40WH08G)
RF51	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF52	24872332	Chip, 3300 ohm, 1/16W (40WH08G)
RF53	24872472	Chip, 4700 ohm, 1/16W (40WH08G)
RF54	24872103	Chip, 10k ohm, 1/16W (40WH08G)
RF55	24872151	Chip, 150 ohm, 1/16W (40WH08G)
RF56	24872102	Chip, 1k ohm, 1/16W (40WH08G)
RH002	24872473	Chip, 47k ohm, 1/16W
RH003	24872473	Chip, 47k ohm, 1/16W
RH004	24872221	Chip, 220 ohm, 1/16W
RH005	24872221	Chip, 220 ohm, 1/16W
RH006	24872221	Chip, 220 ohm, 1/16W
RH007	24872221	Chip, 220 ohm, 1/16W
RH008	24872221	Chip, 220 ohm, 1/16W
RH009	24872103	Chip, 10k ohm, 1/16W
RH041	24872101	Chip, 100 ohm, 1/16W
RH042	24872101	Chip, 100 ohm, 1/16W
RH043	24872101	Chip, 100 ohm, 1/16W
RH044	24872101	Chip, 100 ohm, 1/16W
RH045	24872101	Chip, 100 ohm, 1/16W
RH046	24872101	Chip, 100 ohm, 1/16W
RH047	24872101	Chip, 100 ohm, 1/16W
RH048	24872101	Chip, 100 ohm, 1/16W
RH051	24872222	Chip, 2200 ohm, 1/16W
RH061	24872561	Chip, 560 ohm, 1/16W
RH062	24872102	Chip, 1k ohm, 1/16W
RH063	24872103	Chip, 10k ohm, 1/16W
RH064	24872103	Chip, 10k ohm, 1/16W
RH170	24872122	Chip, 1200 ohm, 1/16W
RH171	24872122	Chip, 1200 ohm, 1/16W
RH172	24872122	Chip, 1200 ohm, 1/16W
RH173	24872122	Chip, 1200 ohm, 1/16W
RH174	24872122	Chip, 1200 ohm, 1/16W
RH175	24872122	Chip, 1200 ohm, 1/16W
RH176	24872122	Chip, 1200 ohm, 1/16W
RH177	24872122	Chip, 1200 ohm, 1/16W
RH178	24872122	Chip, 1200 ohm, 1/16W
RH179	24872122	Chip, 1200 ohm, 1/16W
RH180	24872122	Chip, 1200 ohm, 1/16W

Location No.	Part No.	Description
RH181	24872122	Chip, 1200 ohm, 1/16W
RH182	24872122	Chip, 1200 ohm, 1/16W
RH183	24872122	Chip, 1200 ohm, 1/16W
RH184	24872122	Chip, 1200 ohm, 1/16W
RH185	24872122	Chip, 1200 ohm, 1/16W
RH186	24872122	Chip, 1200 ohm, 1/16W
RH187	24872122	Chip, 1200 ohm, 1/16W
RH188	24872122	Chip, 1200 ohm, 1/16W
RH189	24872122	Chip, 1200 ohm, 1/16W
RH190	24872122	Chip, 1200 ohm, 1/16W
RH191	24872122	Chip, 1200 ohm, 1/16W
RH192	24872122	Chip, 1200 ohm, 1/16W
RH193	24872122	Chip, 1200 ohm, 1/16W
RH194	24872122	Chip, 1200 ohm, 1/16W
RH195	24872122	Chip, 1200 ohm, 1/16W
RH196	24872122	Chip, 1200 ohm, 1/16W
RH197	24872122	Chip, 1200 ohm, 1/16W
RH198	24872122	Chip, 1200 ohm, 1/16W
RH199	24872122	Chip, 1200 ohm, 1/16W
RH201	24872472	Chip, 4700 ohm, 1/16W
RH202	24872472	Chip, 4700 ohm, 1/16W
RH203	24872472	Chip, 4700 ohm, 1/16W
RH204	24872472	Chip, 4700 ohm, 1/16W
RH205	24872472	Chip, 4700 ohm, 1/16W
RH206	24872472	Chip, 4700 ohm, 1/16W
RH207	24872331	Chip, 330 ohm, 1/16W
RH211	24872473	Chip, 47k ohm, 1/16W
RH212	24872473	Chip, 47k ohm, 1/16W
RH213	24872103	Chip, 10k ohm, 1/16W
RR01	24366102	CF, 1k ohm
RR02	24366104	CF, 100k ohm
RR03	24366222	CF, 2200 ohm
RR04	24366101	CF, 100 ohm
RR05	24366102	CF, 1k ohm
RR06	24366223	CF, 22k ohm
RR07	24366152	CF, 1500 ohm
RR10	24366102	CF, 1k ohm
RR11	24366681	CF, 680 ohm
RR12	24366152	CF, 1500 ohm
RR13	24366152	CF, 1500 ohm
RR15	24366391	CF, 390 ohm
RR16	24366391	CF, 390 ohm
RR17	24366391	CF, 390 ohm
RR18	24366102	CF, 1k ohm
RR22	24366103	CF, 10k ohm
RR23	24366103	CF, 10k ohm
RR32	24366331	CF, 330 ohm
RR33	24366331	CF, 330 ohm
RR34	24366331	CF, 330 ohm
RR35	24366392	CF, 3900 ohm
RR36	24366392	CF, 3900 ohm
RR37	24366392	CF, 3900 ohm
RR40	24366102	CF, 1k ohm
RR48	24366102	CF, 1k ohm
RR63	24366332	CF, 3300 ohm
RR64	24366152	CF, 1500 ohm
RR65	24366102	CF, 1k ohm
RR66	24366101	CF, 100 ohm
RR67	24366271	CF, 270 ohm
RR68	24366332	CF, 3300 ohm
RR69	24366152	CF, 1500 ohm
RR70	24366102	CF, 1k ohm
RR71	24366332	CF, 3300 ohm
RR72	24366332	CF, 3300 ohm

Location No.	Part No.	Description
RR73	24366332	CF, 3300 ohm
RR74	24366102	CF, 1k ohm
RR75	24366102	CF, 1k ohm
RR81	24366271	CF, 270 ohm
RR82	24366101	CF, 100 ohm
RR83	24366271	CF, 270 ohm
RR84	24366101	CF, 100 ohm
RR85	24366102	CF, 1k ohm
RR86	24366152	CF, 1500 ohm
RR87	24366332	CF, 3300 ohm
RR88	24366101	CF, 100 ohm
RS01	24872681	Chip, 680 ohm, 1/16W
RS02	24872681	Chip, 680 ohm, 1/16W
RS03	24872562	Chip, 5600 ohm, 1/16W
RS04	24872562	Chip, 5600 ohm, 1/16W
RS05	24872562	Chip, 5600 ohm, 1/16W
RS06	24872562	Chip, 5600 ohm, 1/16W
RS07	24872562	Chip, 5600 ohm, 1/16W
RS08	24872562	Chip, 5600 ohm, 1/16W
RS09	24872562	Chip, 5600 ohm, 1/16W
RS10	24872562	Chip, 5600 ohm, 1/16W
RS13	24872101	Chip, 100 ohm, 1/16W
RS14	24872101	Chip, 100 ohm, 1/16W
RS15	24872104	Chip, 100k ohm, 1/16W
RS16	24872104	Chip, 100k ohm, 1/16W
RS17	24872223	Chip, 22k ohm, 1/16W
RS18	24872223	Chip, 22k ohm, 1/16W
RS19	24872681	Chip, 680 ohm, 1/16W
RS20	24872681	Chip, 680 ohm, 1/16W
RS21	24872222	Chip, 2200 ohm, 1/16W
RS22	24872222	Chip, 2200 ohm, 1/16W
RS23	24872101	Chip, 100 ohm, 1/16W
RS24	24872101	Chip, 100 ohm, 1/16W
RS27	24872104	Chip, 100k ohm, 1/16W
RS28	24872104	Chip, 100k ohm, 1/16W
RS29	24872223	Chip, 22k ohm, 1/16W
RS30	24872223	Chip, 22k ohm, 1/16W
RS31	24872103	Chip, 10k ohm, 1/16W
RS32	24872104	Chip, 100k ohm, 1/16W
RS35	24872223	Chip, 22k ohm, 1/16W
RS36	24872223	Chip, 22k ohm, 1/16W
RS37	24872104	Chip, 100k ohm, 1/16W
RS38	24872104	Chip, 100k ohm, 1/16W
RS43	24872681	Chip, 680 ohm, 1/16W
RS44	24872681	Chip, 680 ohm, 1/16W
RV05	24872101	Chip, 100 ohm, 1/16W
RV06	24872152	Chip, 1500 ohm, 1/16W
RV07	24872103	Chip, 10k ohm, 1/16W
RV08	24872103	Chip, 10k ohm, 1/16W
RV09	24872101	Chip, 100 ohm, 1/16W
RV10	24872101	Chip, 100 ohm, 1/16W
RV12	24872681	Chip, 680 ohm, 1/16W
RV13	24872681	Chip, 680 ohm, 1/16W
RV22	24366222	CF, 2200 ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV24	24366181	CF, 180 ohm
RV25	24872101	Chip, 100 ohm, 1/16W
RV26	24366181	CF, 180 ohm
RV27	24872750	Chip, 75 ohm, 1/16W
RV28	24872562	Chip, 5600 ohm, 1/16W
RV29	24872103	Chip, 10k ohm, 1/16W
RV30	24872750	Chip, 75 ohm, 1/16W
RV31	24872750	Chip, 75 ohm, 1/16W
RV32	24872750	Chip, 75 ohm, 1/16W

Location No.	Part No.	Description
RV33	24872562	Chip, 5600 ohm, 1/16W
RV34	24872562	Chip, 5600 ohm, 1/16W
RV37	24872750	Chip, 75 ohm, 1/16W
RV60	24366681	CF, 680 ohm
RV60	24872102	Chip, 1k ohm, 1/16W
RV61	24366681	CF, 680 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24872101	Chip, 100 ohm, 1/16W
RV63	24366151	CF, 150 ohm
RV64	24872750	Chip, 75 ohm, 1/16W
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24872750	Chip, 75 ohm, 1/16W
RV67	24366151	CF, 150 ohm
RV68	24872101	Chip, 100 ohm, 1/16W
RV70	24872101	Chip, 100 ohm, 1/16W
RV71	24872472	Chip, 4700 ohm, 1/16W
RV81	24872750	Chip, 75 ohm, 1/16W
RV82	24872101	Chip, 100 ohm, 1/16W
RV85	24872750	Chip, 75 ohm, 1/16W
RV86	24872750	Chip, 75 ohm, 1/16W
RV87	24872750	Chip, 75 ohm, 1/16W
RV89	24872750	Chip, 75 ohm, 1/16W
RV90	24872681	Chip, 680 ohm, 1/16W
RV91	24872681	Chip, 680 ohm, 1/16W
RV95	24872750	Chip, 75 ohm, 1/16W
RV96	24872750	Chip, 75 ohm, 1/16W
RV97	24872750	Chip, 75 ohm, 1/16W
RX101	24872393	Chip, 39k ohm, 1/16W
RX102	24872153	Chip, 15k ohm, 1/16W
RX103	24872221	Chip, 220 ohm, 1/16W
RX104	24872392	Chip, 3900 ohm, 1/16W
RX106	24872331	Chip, 330 ohm, 1/16W
RX107	24872821	Chip, 820 ohm, 1/16W
RX108	24872680	Chip, 68 ohm, 1/16W
RX109	24872122	Chip, 1200 ohm, 1/16W
RX110	24872122	Chip, 1200 ohm, 1/16W
RX111	24872681	Chip, 680 ohm, 1/16W
RX112	24872470	Chip, 47 ohm, 1/16W
RX113	24872471	Chip, 470 ohm, 1/16W
RX114	24872681	Chip, 680 ohm, 1/16W
RX115	24872101	Chip, 100 ohm, 1/16W
RX116	24872681	Chip, 680 ohm, 1/16W
RX117	24872201	Chip, 200 ohm, 1/16W
RX118	24872221	Chip, 220 ohm, 1/16W
RX119	24872101	Chip, 100 ohm, 1/16W
RX120	24872101	Chip, 100 ohm, 1/16W
RX121	24872101	Chip, 100 ohm, 1/16W
RX122	24872122	Chip, 1200 ohm, 1/16W
RX123	24872331	Chip, 330 ohm, 1/16W
RX124	24872101	Chip, 100 ohm, 1/16W
RX125	24872101	Chip, 100 ohm, 1/16W
RX130	24872561	Chip, 560 ohm, 1/16W
RX131	24872102	Chip, 1k ohm, 1/16W
RX141	24872101	Chip, 100 ohm, 1/16W
RX143	24872393	Chip, 39k ohm, 1/16W
RX144	24872153	Chip, 15k ohm, 1/16W
RX145	24872201	Chip, 200 ohm, 1/16W
RX146	24872221	Chip, 220 ohm, 1/16W
RX147	24872681	Chip, 680 ohm, 1/16W
RX150	24872101	Chip, 100 ohm, 1/16W
RX152	24872331	Chip, 330 ohm, 1/16W
RX155	24872102	Chip, 1k ohm, 1/16W
RX156	24872272	Chip, 2700 ohm, 1/16W
RX157	24872471	Chip, 470 ohm, 1/16W

Location No.	Part No.	Description
RX158	24872471	Chip, 470 ohm, 1/16W
RX161	24872101	Chip, 100 ohm, 1/16W
RX163	24872393	Chip, 39k ohm, 1/16W
RX164	24872153	Chip, 15k ohm, 1/16W
RX165	24872201	Chip, 200 ohm, 1/16W
RX166	24872221	Chip, 220 ohm, 1/16W
RX167	24872681	Chip, 680 ohm, 1/16W
RX170	24872101	Chip, 100 ohm, 1/16W
RX172	24872331	Chip, 330 ohm, 1/16W
RX175	24872102	Chip, 1k ohm, 1/16W
RX176	24872272	Chip, 2700 ohm, 1/16W
RX177	24872471	Chip, 470 ohm, 1/16W
RX178	24872471	Chip, 470 ohm, 1/16W
RX179	24872101	Chip, 100 ohm, 1/16W
RX180	24872101	Chip, 100 ohm, 1/16W
RX181	24872680	Chip, 68 ohm, 1/16W
RX185	24872470	Chip, 47 ohm, 1/16W
RX186	24872101	Chip, 100 ohm, 1/16W
RX191	24872100	Chip, 10 ohm, 1/16W
RX192	24872100	Chip, 10 ohm, 1/16W
RX193	24872100	Chip, 10 ohm, 1/16W
RX201	24872102	Chip, 1k ohm, 1/16W
RX202	24872103	Chip, 10k ohm, 1/16W
RX203	24872103	Chip, 10k ohm, 1/16W
RX204	24000824	Chip, Jumper, 2125 type
RX205	24019439	Chip, 47 ohm, 1/16W
RX206	24019439	Chip, 47 ohm, 1/16W
RX207	24019439	Chip, 47 ohm, 1/16W
RX208	24019439	Chip, 47 ohm, 1/16W
RX209	24019439	Chip, 47 ohm, 1/16W
RX210	24019439	Chip, 47 ohm, 1/16W
RX211	24019439	Chip, 47 ohm, 1/16W
RX212	24019439	Chip, 47 ohm, 1/16W
RX214	24872103	Chip, 10k ohm, 1/16W
RX216	24872102	Chip, 1k ohm, 1/16W
RX221	24872470	Chip, 47 ohm, 1/16W
RX222	24872470	Chip, 47 ohm, 1/16W
RX223	24872470	Chip, 47 ohm, 1/16W
RX225	24872151	Chip, 150 ohm, 1/16W
RX226	24872331	Chip, 330 ohm, 1/16W
RX229	24872332	Chip, 3300 ohm, 1/16W
RX231	24872470	Chip, 47 ohm, 1/16W
RX232	24872470	Chip, 47 ohm, 1/16W
RX233	24872470	Chip, 47 ohm, 1/16W
RX235	24872274	Chip, 270k ohm, 1/16W
RX236	24872472	Chip, 4700 ohm, 1/16W
RX237	24872221	Chip, 220 ohm, 1/16W
RX240	24872272	Chip, 2700 ohm, 1/16W
RX256	24000824	Chip, Jumper, 2125 type
RX258	24872470	Chip, 47 ohm, 1/16W
RX259	24872470	Chip, 47 ohm, 1/16W
RX261	24872101	Chip, 100 ohm, 1/16W
RX263	24872101	Chip, 100 ohm, 1/16W
RX274	24872221	Chip, 220 ohm, 1/16W
RX275	24872221	Chip, 220 ohm, 1/16W
RX276	24872221	Chip, 220 ohm, 1/16W
RX277	24872221	Chip, 220 ohm, 1/16W
RX278	24872221	Chip, 220 ohm, 1/16W
RX279	24872471	Chip, 470 ohm, 1/16W
RX280	24872471	Chip, 470 ohm, 1/16W
RX281	24019439	Chip, 47 ohm, 1/16W
RX282	24019439	Chip, 47 ohm, 1/16W
RX283	24019439	Chip, 47 ohm, 1/16W
RX284	24019439	Chip, 47 ohm, 1/16W

Location No.	Part No.	Description
RX285	24872332	Chip, 3300 ohm, 1/16W
RX286	24872332	Chip, 3300 ohm, 1/16W
RX291	24872101	Chip, 100 ohm, 1/16W
RX292	24872101	Chip, 100 ohm, 1/16W
RX293	24872332	Chip, 3300 ohm, 1/16W
RX301	24872201	Chip, 200 ohm, 1/16W
RX302	24872272	Chip, 2700 ohm, 1/16W
RX303	24872201	Chip, 200 ohm, 1/16W
RX304	24872272	Chip, 2700 ohm, 1/16W
RX305	24872201	Chip, 200 ohm, 1/16W
RX306	24872272	Chip, 2700 ohm, 1/16W
RX307	24872472	Chip, 4700 ohm, 1/16W
RX308	24872222	Chip, 2200 ohm, 1/16W
RX309	24872122	Chip, 1200 ohm, 1/16W
RX310	24872122	Chip, 1200 ohm, 1/16W
RX311	24872122	Chip, 1200 ohm, 1/16W
RX312	24872101	Chip, 100 ohm, 1/16W
RX313	24872152	Chip, 1500 ohm, 1/16W
RX314	24872101	Chip, 100 ohm, 1/16W
RX315	24872101	Chip, 100 ohm, 1/16W
RX316	24872101	Chip, 100 ohm, 1/16W
RX321	24872223	Chip, 22k ohm, 1/16W
RX322	24872223	Chip, 22k ohm, 1/16W
RX325	24872101	Chip, 100 ohm, 1/16W
RX330	24872821	Chip, 820 ohm, 1/16W
RX331	24872151	Chip, 150 ohm, 1/16W
RX332	24872821	Chip, 820 ohm, 1/16W
RX334	24872561	Chip, 560 ohm, 1/16W
RX341	24872223	Chip, 22k ohm, 1/16W
RX342	24872223	Chip, 22k ohm, 1/16W
RX345	24872101	Chip, 100 ohm, 1/16W
RX350	24872821	Chip, 820 ohm, 1/16W
RX351	24872121	Chip, 120 ohm, 1/16W
RX352	24872681	Chip, 680 ohm, 1/16W
RX354	24872561	Chip, 560 ohm, 1/16W
RX361	24872223	Chip, 22k ohm, 1/16W
RX362	24872223	Chip, 22k ohm, 1/16W
RX365	24872101	Chip, 100 ohm, 1/16W
RX370	24872821	Chip, 820 ohm, 1/16W
RX371	24872121	Chip, 120 ohm, 1/16W
RX372	24872681	Chip, 680 ohm, 1/16W
RX374	24872561	Chip, 560 ohm, 1/16W
RX402	24872101	Chip, 100 ohm, 1/16W
RX404	24872101	Chip, 100 ohm, 1/16W
RX406	24872101	Chip, 100 ohm, 1/16W
RX408	24872101	Chip, 100 ohm, 1/16W
RX410	24872101	Chip, 100 ohm, 1/16W
RX412	24872101	Chip, 100 ohm, 1/16W
RX421	24872221	Chip, 220 ohm, 1/16W
RX422	24872221	Chip, 220 ohm, 1/16W
RX423	24872221	Chip, 220 ohm, 1/16W
RX424	24872221	Chip, 220 ohm, 1/16W
RX425	24872221	Chip, 220 ohm, 1/16W
RX427	24872221	Chip, 220 ohm, 1/16W
RX428	24872221	Chip, 220 ohm, 1/16W
RX429	24872221	Chip, 220 ohm, 1/16W
RX430	24872221	Chip, 220 ohm, 1/16W
RX431	24322478	MF, 0.47 ohm, 1W
RZ01	24872102	Chip, 1k ohm, 1/16W
RZ02	24872102	Chip, 1k ohm, 1/16W
RZ03	24872332	Chip, 3300 ohm, 1/16W
RZ04	24872102	Chip, 1k ohm, 1/16W
RZ05	24872391	Chip, 390 ohm, 1/16W
RZ06	24872821	Chip, 820 ohm, 1/16W
RZ08	24872391	Chip, 390 ohm, 1/16W
RZ09	24872101	Chip, 100 ohm, 1/16W
RZ13	24872102	Chip, 1k ohm, 1/16W
RZ14	24872102	Chip, 1k ohm, 1/16W
RZ15	24872102	Chip, 1k ohm, 1/16W
RZ17	24872391	Chip, 390 ohm, 1/16W
RZ18	24872391	Chip, 390 ohm, 1/16W
RZ20	24872101	Chip, 100 ohm, 1/16W
RZ29	24872101	Chip, 100 ohm, 1/16W
RZ30	24872101	Chip, 100 ohm, 1/16W

COILS & TRANSFORMERS

L101	23221803	Coil, Choke, TLN3040D
L201	23289100	Coil, Peaking, TRF4100AF
L301	23237975	Coil, Peaking, TRF4101AC
L302	23248073	Coil, Choke, TLN3299D
L303	23248073	Coil, Choke, TLN3299D
L304	23103859	Coil (Ferrite Bead), TEM2011
L305	23238710	Coil, Peaking, TRF4220AJ
L400	23237975	Coil, Peaking, TRF4101AC
L400	23289100	Coil, Peaking, TRF4100AF
L441	23233995	Coil, Linearity, TLN2215AG
L461	23248191	Coil, Choke, TLN3351AD
L462	23231300	Deflection Yoke, TDY707MS
L463	23231300	Deflection Yoke, TDY707MS
L464	23231300	Deflection Yoke, TDY707MS
L465	23103859	Coil (Ferrite Bead), TEM2011
L466	23103775	Coil (Ferrite Bead), TEM2014
L467	23103775	Coil (Ferrite Bead), TEM2014
L472	23102441	Magnet, MAG-1094
L473	23102441	Magnet, MAG-1094
L474	23102441	Magnet, MAG-1094
L481	23237975	Coil, Peaking, TRF4101AC
L501	23238714	Coil, Peaking, TRF4100AJ
L501	23289100	Coil, Peaking, TRF4100AF
L503	23289470	Coil, Peaking, TRF4470AF
L503	23289840	Coil, Peaking, TRF4100AT
L510	23103852	Coil, Filter, TEM2028AH
L511	23103852	Coil, Filter, TEM2028AH
L512	23103852	Coil, Filter, TEM2028AH
L513	23103845	Coil, TEM2030AY
L513	23103898	Coil, Filter, TEM2030AH
L515	23103898	Coil, Filter, TEM2030AH
L605	23248073	Coil, Choke, TLN3299D
L631	24000824	Chip Jumper, 2125 Type
L632	23103832	Chip (Ferrite Bead), TEM2125M
L671	23103887	Chip (Ferrite Bead), TEM2129AM
L672	23103887	Chip (Ferrite Bead), TEM2129AM
L673	23103887	Chip (Ferrite Bead), TEM2129AM
L674	23103887	Chip (Ferrite Bead), TEM2129AM
L676	23103832	Chip (Ferrite Bead), TEM2125M
L677	23103832	Chip (Ferrite Bead), TEM2125M
L682	23103832	Chip (Ferrite Bead), TEM2125M
L683	23103832	Chip (Ferrite Bead), TEM2125M
L684	23289109	Coil, Peaking, TRF41R0AF

Location No.	Part No.	Description
L685	23289109	Coil, Peaking, TRF41R0AF
L701	23237987	Coil, Peaking, TRF4100AC
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L764	23103859	Coil (Ferrite Bead), TEM2011
L765	23103859	Coil (Ferrite Bead), TEM2011
L766	23261974	Coil, Choke, HC5-035
L769	23237987	Coil, Peaking, TRF4100AC
L780	23237987	Coil, Peaking, TRF4100AC
L781	23103859	Coil (Ferrite Bead), TEM2011
L782	23103859	Coil (Ferrite Bead), TEM2011
L783	23261974	Coil, Choke, HC5-035
L803	23103859	Coil (Ferrite Bead), TEM2011
L804	23103859	Coil (Ferrite Bead), TEM2011
L856	23103859	Coil (Ferrite Bead), TEM2011
L857	23103859	Coil (Ferrite Bead), TEM2011
L858	23103859	Coil (Ferrite Bead), TEM2011
L859	23103859	Coil (Ferrite Bead), TEM2011
L861	23103859	Coil (Ferrite Bead), TEM2011
L862	23248073	Coil, Choke, TLN3299D
L863	23103859	Coil (Ferrite Bead), TEM2011
L864	23103859	Coil (Ferrite Bead), TEM2011
L865	23103859	Coil (Ferrite Bead), TEM2011
L866	23248073	Coil, Choke, TLN3299D
L867	70211045	Coil, Choke, 0.02mH
L868	23103859	Coil (Ferrite Bead), TEM2011
L869	23103859	Coil (Ferrite Bead), TEM2011
L870	23248073	Coil, Choke, TLN3299D
L871	70211045	Coil, Choke, 0.02mH
L872	23248073	Coil, Choke, TLN3299D
L873	70211045	Coil, Choke, 0.02mH
L874	70211045	Coil, Choke, 0.02mH
L893	23289842	Coil, Peaking, TRF4220AT
L901	23237975	Coil, Peaking, TRF4101AC
L902	23238714	Coil, Peaking, TRF4100AJ
L903	23289680	Coil, Peaking, TRF4680AF
L911	23237987	Coil, Peaking, TRF4100AC
L912	23289680	Coil, Peaking, TRF4680AF
L913	23238714	Coil, Peaking, TRF4100AJ
L915	23289109	Coil, Peaking, TRF41R0AF
L922	23289680	Coil, Peaking, TRF4680AF
L923	23238714	Coil, Peaking, TRF4100AJ
L925	23289109	Coil, Peaking, TRF41R0AF
L961	23238714	Coil, Peaking, TRF4100AJ
L962	23289109	Coil, Peaking, TRF41R0AF
L6101	23103859	Coil (Ferrite Bead), TEM2011
L7701	23103859	Coil (Ferrite Bead), TEM2011
L7702	23103859	Coil (Ferrite Bead), TEM2011
L7703	23103859	Coil (Ferrite Bead), TEM2011
L7704	23103859	Coil (Ferrite Bead), TEM2011
L7705	23103859	Coil (Ferrite Bead), TEM2011
L7706	23103859	Coil (Ferrite Bead), TEM2011
L7710	23248195	Coil, Choke, TLN3441AT
L7711	23248195	Coil, Choke, TLN3441AT
L7712	23248195	Coil, Choke, TLN3441AT
L7713	23248195	Coil, Choke, TLN3441AT
L8100	23103859	Coil (Ferrite Bead), TEM2011
L8120	23103859	Coil (Ferrite Bead), TEM2011
L8170	23280016	Coil, Peaking, TRF4100AZ (40WH08G)
L8520	70211045	Coil, Choke, 0.02mH
L8530	70211045	Coil, Choke, 0.02mH

Location No.	Part No.	Description
L8540	23280016	Coil, Peaking, TRF4100AZ (40WH08G)
L8560	23280016	Coil, Peaking, TRF4100AZ (40WH08G)
L8570	23103859	Coil (Ferrite Bead), TEM2011 (40WH08G)
L8571	23238702	Coil, Peaking, TRF4101AJ (40WH08G)
L8572	23103859	Coil (Ferrite Bead), TEM2011 (40WH08G)
LA01	23289100	Coil, Peaking, TRF4100AF
LC43	23103775	Coil (Ferrite Bead), TEM2014
LC44	23103775	Coil (Ferrite Bead), TEM2014
LC45	23238562	Coil, Peaking, TRF4109AJ
LC88	23289109	Coil, Peaking, TRF41R0AF
LD87	23103832	Chip (Ferrite Bead), TEM2125M
LD89	23289470	Coil, Peaking, TRF4470AF
LF01	23289840	Coil, Peaking, TRF4100AT (40WH08G)
LF01	23103775	Coil (Ferrite Bead), TEM2014 (40WH08B)
LF02	23289834	Coil, Peaking, TRF41R0AT (40WH08G)
LF02	24366100	CF, 10 ohm (40WH08B)
LF03	24366100	CF, 10 ohm (40WH08B)
LF04	24366100	CF, 10 ohm (40WH08B)
LF06	23238562	Coil, Peaking, TRF4109AJ (40WH08B)
LF07	23238562	Coil, Peaking, TRF4109AJ (40WH08B)
LF08	23238714	Coil, Peaking, TRF4100AJ (40WH08B)
LF09	23238714	Coil, Peaking, TRF4100AJ (40WH08B)
LF10	23289840	Coil, Peaking, TRF4100AT (40WH08G)
LF10	23238562	Coil, Peaking, TRF4109AJ (40WH08B)
LF11	23289834	Coil, Peaking, TRF41R0AT (40WH08B)
LF12	23289840	Coil, Peaking, TRF4100AT (40WH08B)
LF13	23289840	Coil, Peaking, TRF4100AT (40WH08B)
LF17	23289840	Coil, Peaking, TRF4100AT (40WH08B)
LF21	23238714	Coil, Peaking, TRF4100AJ (40WH08G)
LF22	23238562	Coil, Peaking, TRF4109AJ (40WH08G)
LF23	23238562	Coil, Peaking, TRF4109AJ (40WH08G)
LF24	23238562	Coil, Peaking, TRF4109AJ (40WH08G)
LF25	23238506	Coil, Peaking, TRF4229AJ (40WH08G)
LF26	23238506	Coil, Peaking, TRF4229AJ (40WH08G)
LF27	23238506	Coil, Peaking, TRF4229AJ (40WH08G)
LF28	23238506	Coil, Peaking, TRF4229AJ (40WH08G)

Location No.	Part No.	Description
LF29	23238714	Coil, Peaking, TRF4100AJ (40WH08G)
LF30	23238714	Coil, Peaking, TRF4100AJ (40WH08G)
LF31	23289840	Coil, Peaking, TRF4100AT (40WH08G)
LF50	23238714	Coil, Peaking, TRF4100AJ (40WH08G)
LH001	23103864	Chip (Ferrite Bead), TEM2103T
LH002	23103864	Chip (Ferrite Bead), TEM2103T
LH003	23103859	Coil (Ferrite Bead), TEM2011
LH004	23103859	Coil (Ferrite Bead), TEM2011
LH005	23103859	Coil (Ferrite Bead), TEM2011
LH007	23103795	Chip, Impeder, MMZ2012S301A
LH009	23103795	Chip, Impeder, MMZ2012S301A
LH010	23103795	Chip, Impeder, MMZ2012S301A
LH012	23103859	Coil (Ferrite Bead), TEM2011
LH061	23103864	Chip (Ferrite Bead), TEM2103T
LH062	23103864	Chip (Ferrite Bead), TEM2103T
LH063	23103864	Chip (Ferrite Bead), TEM2103T
LH064	23103864	Chip (Ferrite Bead), TEM2103T
LH065	23103864	Chip (Ferrite Bead), TEM2103T
LH066	23103864	Chip (Ferrite Bead), TEM2103T
LH067	23103864	Chip (Ferrite Bead), TEM2103T
LH120	23103864	Chip (Ferrite Bead), TEM2103T
LH122	23103864	Chip (Ferrite Bead), TEM2103T
LH123	23103864	Chip (Ferrite Bead), TEM2103T
LH124	23103864	Chip (Ferrite Bead), TEM2103T
LH125	23103864	Chip (Ferrite Bead), TEM2103T
LH126	23103864	Chip (Ferrite Bead), TEM2103T
LR01	23289109	Coil, Peaking, TRF41R0AF
LR02	23289109	Coil, Peaking, TRF41R0AF
LR26	23103845	Coil, TEM2030AY
LS45	23103832	Chip (Ferrite Bead), TEM2125M
LS46	23103832	Chip (Ferrite Bead), TEM2125M
LV01	23103852	Coil, Filter, TEM2028AH
LV02	23103898	Coil, Filter, TEM2030AH
LV03	23103852	Coil, Filter, TEM2028AH
LV06	23103832	Chip (Ferrite Bead), TEM2125M
LV07	23103832	Chip (Ferrite Bead), TEM2125M
LV09	23289100	Coil, Peaking, TRF4100AF
LV20	23103845	Coil, TEM2030AY
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV47	23238562	Coil, Peaking, TRF4109AJ
LX101	23103822	Chip (Ferrite Bead), TEM2117T
LX104	23245827	Chip, Inductor, TRF45R6CB
LX105	23103822	Chip (Ferrite Bead), TEM2117T
LX106	23103822	Chip (Ferrite Bead), TEM2117T
LX107	23103822	Chip (Ferrite Bead), TEM2117T
LX110	23103822	Chip (Ferrite Bead), TEM2117T
LX143	23245835	Chip, Inductor, TRF4270CB
LX144	23103822	Chip (Ferrite Bead), TEM2117T
LX145	23103822	Chip (Ferrite Bead), TEM2117T
LX150	23103822	Chip (Ferrite Bead), TEM2117T
LX152	23103822	Chip (Ferrite Bead), TEM2117T
LX153	23103822	Chip (Ferrite Bead), TEM2117T

Location No.	Part No.	Description
LX163	23245835	Chip, Inductor, TRF4270CB
LX201	23103886	Chip (Ferrite Bead), TEM2129AM
LX221	23103822	Chip (Ferrite Bead), TEM2117T
LX222	23103822	Chip (Ferrite Bead), TEM2117T
LX223	23103822	Chip (Ferrite Bead), TEM2117T
LX226	23103822	Chip (Ferrite Bead), TEM2117T
LX227	23103822	Chip (Ferrite Bead), TEM2117T
LX231	23103822	Chip (Ferrite Bead), TEM2117T
LX232	23103822	Chip (Ferrite Bead), TEM2117T
LX233	23103822	Chip (Ferrite Bead), TEM2117T
LX236	23103822	Chip (Ferrite Bead), TEM2117T
LX237	23103822	Chip (Ferrite Bead), TEM2117T
LX241	23103822	Chip (Ferrite Bead), TEM2117T
LX261	23103822	Chip (Ferrite Bead), TEM2117T
LX271	23103822	Chip (Ferrite Bead), TEM2117T
LX301	23103822	Chip (Ferrite Bead), TEM2117T
LX321	23103822	Chip (Ferrite Bead), TEM2117T
LX322	23245825	Chip, Inductor, TRF43R9CB
LX342	23245826	Chip, Inductor, TRF44R7CB
LX362	23245826	Chip, Inductor, TRF44R7CB
LX401	23103886	Chip (Ferrite Bead), TEM2129AM
LX402	23103822	Chip (Ferrite Bead), TEM2117T
LX403	23103822	Chip (Ferrite Bead), TEM2117T
LX404	23103822	Chip (Ferrite Bead), TEM2117T
LX405	23103822	Chip (Ferrite Bead), TEM2117T
LX407	23103822	Chip (Ferrite Bead), TEM2117T
LX421	23238562	Coil, Peaking, TRF4109AJ
LX422	23238562	Coil, Peaking, TRF4109AJ
LX423	23238562	Coil, Peaking, TRF4109AJ
LX424	23238562	Coil, Peaking, TRF4109AJ
LX425	23238562	Coil, Peaking, TRF4109AJ
LX427	23238562	Coil, Peaking, TRF4109AJ
LX428	23238718	Coil, Peaking, TRF4479AJ
LX429	23238718	Coil, Peaking, TRF4479AJ
LX430	23238562	Coil, Peaking, TRF4109AJ
LX431	23103880	Coil (Ferrite Bead), TEM2011Y
LZ01	23238710	Coil, Peaking, TRF4220AJ
LZ02	23238714	Coil, Peaking, TRF4100AJ
LZ03	23238714	Coil, Peaking, TRF4100AJ
LZ04	23238708	Coil, Peaking, TRF4330AJ
LZ05	23238709	Coil, Peaking, TRF4270AJ
LZ06	23103852	Coil, Filter, TEM2028AH
LZ07	70131060	Baze Filter, ZBF253D-00
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Baze Filter, ZBF253D-00
LZ10	70131060	Baze Filter, ZBF253D-00
T400	23224364	Transformer, Focus, TLN2168AH
T401	23224371	Transformer, Horiz, Drive, TLN1080AH
T402	23248248	Coil, Choke, TLN3500AH
⚠T461A	23192917	Anode Cap, TCCP5149
⚠T461B	23960136	Adhesive, TSE3843-W
⚠T461Z	23236628	Transformer, Flyback, TFB3087ZD
T801	23211670	Line Filter, TRF3164G
⚠T803	23217468	Transformer, Power, TPW1565AZ
⚠T804	23217472	Transformer, Choke, TPW2027AZ
⚠T862	23217467	Transformer, Converter, TPW3450AS

Location No.	Part No.	Description
⚠T864	23217438	Transformer, Converter, TPW3431AR
T865	23217422	Transformer, Converter, TPW3418AM (40WH08G)
T8020	23211661	Line Filter, TRF3192
T8030	23211661	Line Filter, TRF3192
T8050	23211661	Line Filter, TRF3192 (40WH08G)
T8060	23211661	Line Filter, TRF3192 (40WH08G)

SEMICONDUCTORS

Q201	A6317440	Transistor, 2SC1815-Y
Q202	A6534040	Transistor, 2SA1015-Y
Q203	A6534040	Transistor, 2SA1015-Y
Q204	A6534040	Transistor, 2SA1015-Y
Q205	A6534040	Transistor, 2SA1015-Y
Q206	A6317440	Transistor, 2SC1815-Y
Q209	A6534040	Transistor, 2SA1015-Y
Q237	A6317440	Transistor, 2SC1815-Y
Q241	A6330059	Transistor, 2SC2482(C)
Q261	A6534040	Transistor, 2SA1015-Y
Q262	A6317440	Transistor, 2SC1815-Y
Q263	A6317440	Transistor, 2SC1815-Y
Q274	A6335470	Transistor, 2SC2712-Y
Q301	23319787	IC, LA7833S
Q301B	70391355	Screw, BITTB3X8 SZN
Q302	B0384625	IC, TA8859CP
Q304	B0347500	IC, TA75358P
Q305	A6534040	Transistor, 2SA1015-Y
Q307	B0347500	IC, TA75358P
Q308	23314548	Transistor, 2SC4256
Q370	A6317440	Transistor, 2SC1815-Y
Q371	A6534040	Transistor, 2SA1015-Y
Q372	A6317440	Transistor, 2SC1815-Y
Q402	A6064650	Transistor, 2SK941
Q404	A6371775	Transistor, 2SC5144
Q404B	A8012650	Spacer, AC263
Q404D	72471082	Screw, BRDT2W3X10 SZN
Q405	A6534040	Transistor, 2SA1015-Y
Q406	A6317440	Transistor, 2SC1815-Y
Q425	A6317440	Transistor, 2SC1815-Y
Q426	A6002060	Transistor, RN1206
Q427	A6002060	Transistor, RN1206
Q428	A6002060	Transistor, RN1206
Q460	23314916	Transistor, 2SK947-R
Q461	B0347500	IC, TA75358P
Q462	A6317440	Transistor, 2SC1815-Y
Q481	B0347235	IC, TA75339AP
Q504	A6541130	Transistor, 2SA1162-Y
Q505	A6541130	Transistor, 2SA1162-Y
Q506	A6317440	Transistor, 2SC1815-Y
Q507	A6361770	Transistor, 2SC3437-Y
Q510	B0386208	IC, TA1276AN
Q610	B0376885	IC, TA8213K
Q610B	70391355	Screw, BITTB3X8 SZN
Q611	A6342200	Transistor, 2CS2878-A
Q612	A6342200	Transistor, 2CS2878-A
Q613	A6317440	Transistor, 2SC1815-Y
Q614	A6002040	Transistor, RN1204
Q615	A6534040	Transistor, 2SA1015-Y
Q616	A6534040	Transistor, 2SA1015-Y
Q621	B0376795	IC, TA8200AH
Q621B	70391355	Screw, BITTB3X8 SZN

Location No.	Part No.	Description
Q631	23906596	IC, BA4558
Q631	A6317440	Transistor, 2SC1815-Y
Q632	A6014040	Transistor, RN2404
Q633	A6359870	Transistor, 2SC3326-B
Q634	A6014040	Transistor, RN2404
Q635	A6359870	Transistor, 2SC3326-B
Q641	B0376795	IC, TA8200AH
Q641B	70391355	Screw, BITTB3X8 SZN
Q683	A6342200	Transistor, 2CS2878-A
Q684	A6342200	Transistor, 2CS2878-A
Q685	A6342200	Transistor, 2CS2878-A
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534040	Transistor, 2SA1015-Y
Q711	23314701	Transistor, 2SB1186A, E
Q711B	70391355	Screw, BITTB3X8 SZN
Q712	23314705	Transistor, 2SD1763A, VE
Q712B	70391355	Screw, BITTB3X8 SZN
Q719	A6317440	Transistor, 2SC1815-Y
Q720	A6317440	Transistor, 2SC1815-Y
Q751	23905094	IC, STR392-110
Q752	23905094	IC, STR392-110
Q755	23904521	IC, AN7805
Q755B	70391355	Screw, BITTB3X8 SZN
Q757	A6317440	Transistor, 2SC1815-Y
Q758	A6317440	Transistor, 2SC1815-Y
Q759	A6534040	Transistor, 2SA1015-Y
Q760	A6534040	Transistor, 2SA1015-Y
Q761	23314701	Transistor, 2SB1186A, E
Q761	A6534040	Transistor, 2SA1015-Y
Q761B	70391355	Screw, BITTB3X8 SZN
Q762	A6317440	Transistor, 2SC1815-Y
Q764	B0485895	IC, TC74HC14AP
Q765	A6317440	Transistor, 2SC1815-Y
Q766	A6317440	Transistor, 2SC1815-Y
Q767	B0470188	IC, TC4066BP(N)
Q769	A6317440	Transistor, 2SC1815-Y
Q771	23314705	Transistor, 2SD1763A, VE
Q771B	70391355	Screw, BITTB3X8 SZN
Q772	A6534040	Transistor, 2SA1015-Y
Q773	A6317440	Transistor, 2SC1815-Y
Q779	A6317440	Transistor, 2SC1815-Y
Q781	A6317440	Transistor, 2SC1815-Y
Q782	23318840	IC, AN79M05F
Q782	A6534040	Transistor, 2SA1015-Y
Q782B	70391355	Screw, BITTB3X8 SZN
Q783	A6317440	Transistor, 2SC1815-Y
Q784	23314701	Transistor, 2SB1186A, E
Q784B	70391355	Screw, BITTB3X8 SZN
Q785	23314705	Transistor, 2SD1763A, VE
Q785B	70391355	Screw, BITTB3X8 SZN
Q801	23135015	IC, STR-Z4369
Q810	23906689	IC, PQ05RR11
Q810B	70391355	Screw, BITTB3X8 SZN
Q811	A6002060	Transistor, RN1206
Q812	A6317440	Transistor, 2SC1815-Y
Q820	23318113	IC, TL431CLPB(40WH08G)
Q821	A6002060	Transistor, RN1206
⚠Q822	A8643112	Photo Coupler, TLP621(GRL-L
Q823	23135008	IC, STR-F6668B
Q823B	72471082	Screw, BRDT2W3X10 SZN
Q824	A6317440	Transistor, 2SC1815-Y
Q825	23906695	IC, MIP0224SY (40WH08G)

Location No.	Part No.	Description
Q825B	70391355	Screw, BITTB3X8 SZN
Q826	A8643112	Photo Coupler, TLP621(GRL-L (40WH08G)
Q830	23905977	IC, PQ09RD11
Q830	A6002060	Transistor, RN1206 (40WH08G)
Q830B	70391355	Screw, BITTB3X8 SZN
Q831	23905977	IC, PQ09RD11
Q831	A6317440	Transistor, 2SC1815-Y (40WH08G)
Q831B	70391355	Screw, BITTB3X8 SZN
Q832	23905976	IC, PQ05RD11(40WH08B)
Q833	23905976	IC, PQ05RD11
Q833B	70391355	Screw, BITTB3X8 SZN
Q834	23905976	IC, PQ05RD11
Q834B	70391355	Screw, BITTB3X8 SZN
⚠Q862	A8643112	Photo Coupler, TLP621(GRL-L
Q901	A6372621	Transistor, 2SC5360
Q902	A6317440	Transistor, 2SC1815-Y
Q911	A6372621	Transistor, 2SC5360
Q912	A6317440	Transistor, 2SC1815-Y
Q913	A6534040	Transistor, 2SA1015-Y
Q914	A6317440	Transistor, 2SC1815-Y
Q921	A6372621	Transistor, 2SC5360
Q922	A6317440	Transistor, 2SC1815-Y
Q961	A6317440	Transistor, 2SC1815-Y
Q962	A6534040	Transistor, 2SA1015-Y
Q963	A6317440	Transistor, 2SC1815-Y
Q964	A6534040	Transistor, 2SA1015-Y
Q965	A6317440	Transistor, 2SC1815-Y
Q966	A6534040	Transistor, 2SA1015-Y
Q968	A6317440	Transistor, 2SC1815-Y
Q971	A6534040	Transistor, 2SA1015-Y
Q972	A6534040	Transistor, 2SA1015-Y
Q973	A6534040	Transistor, 2SA1015-Y
Q974	A6317440	Transistor, 2SC1815-Y
Q975	A6734590	Transistor, 2SC752(G)TM-Y
Q4420	B01A0067	IC, TA1300AN
Q4430	A6534040	Transistor, 2SA1015-Y
Q8500	23905251	IC, SE024N
QA01	23000527	IC, 750010-133S(40WH08G)
QA01	23000538	IC, 750010-135S(40WH08B)
QA02	23906642	IC, AT24C64-10PC
QA05	A6734590	Transistor, 2SC752(G)TM-Y
QA80	A6002020	Transistor, RN1202 (40WH08G)
QA81	A6002020	Transistor, RN1202 (40WH08G)
QA82	23904943	IC, MM1111XS (40WH08G)
QA83	A6002040	Transistor, RN1204 (40WH08G)
QB01	A6534040	Transistor, 2SA1015-Y
QB03	A6002050	Transistor, RN1205
QB03	A6534040	Transistor, 2SA1015-Y
QB04	A6534040	Transistor, 2SA1015-Y
QB81	A6342200	Transistor, 2CS2878-A
QB82	A6342200	Transistor, 2CS2878-A
QB83	A6534040	Transistor, 2SA1015-Y
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534040	Transistor, 2SA1015-Y
QB94	A6534040	Transistor, 2SA1015-Y
QB95	A6534040	Transistor, 2SA1015-Y
QB96	A6534040	Transistor, 2SA1015-Y
QD89	A6335470	Transistor, 2SC2712-Y
QF01	23906551	IC, SDA5275-3P (40WH08G)
QF01	23000567	IC, SDA5275-3S (40WH08B)
QF02	23906927	IC, SAB-C161RI(40WH08G)
QF03	23000372	IC, MX29F040QC-3 (40WH08G)

Location No.	Part No.	Description
QF03	23314204	Transistor, 2SC2412K, Q (40WH08B)
QF04	23000969	IC, MX29F040QC (40WH08G)
QF04	23114437	Transistor, 2SC752GTM-Y (40WH08B)
QF05	23000039	IC, AT24C08N10SC(40WH08G)
QF08	23314163	Transistor, 2SA1162-Y (40WH08B)
QF10	23000347	IC, MSM5116400D
QF11	23906367	IC, PST9146NL
QF32	A6361770	Transistor, 2SC3437-Y (40WH08G)
QF33	A6335470	Transistor, 2SC2712-Y (40WH08G)
QF34	A6335470	Transistor, 2SC2712-Y (40WH08G)
QF35	A6335470	Transistor, 2SC2712-Y (40WH08G)
QF36	A6541130	Transistor, 2SA1162-Y (40WH08G)
QH001	B01B4088	IC, TC190C060AF-
QH004	B0485893	IC, TC74HC244AF
QH005	23905013	IC, TLC29321PW
QH006	23906908	IC, MC33078DR2
QH120	23318897	IC, PCM56P-L
QH121	23318897	IC, PCM56P-L
QH140	23318897	IC, PCM56P-L
QH141	23318897	IC, PCM56P-L
QH160	23318897	IC, PCM56P-L
QH161	23318897	IC, PCM56P-L
QH170	23906909	IC, MC33079DR2
QH171	23906909	IC, MC33079DR2
QH172	23906909	IC, MC33079DR2
QH173	23905666	IC, AT24C1610PC
QH174	23905666	IC, AT24C1610PC
QH175	23905666	IC, AT24C1610PC
QH176	23318977	IC, MC14052BFEL
QH177	23904743	IC, LC89066M
QR01	23000123	IC, MB90096-192
QR03	A6534040	Transistor, 2SA1015-Y
QR35	A6317440	Transistor, 2SC1815-Y
QR36	A6317440	Transistor, 2SC1815-Y
QR37	A6534040	Transistor, 2SA1015-Y
QR38	A6317440	Transistor, 2SC1815-Y
QR39	A6534040	Transistor, 2SA1015-Y
QR40	A6317440	Transistor, 2SC1815-Y
QR41	A6534040	Transistor, 2SA1015-Y
QS01	A6359870	Transistor, 2SC3326-B
QS02	A6359870	Transistor, 2SC3326-B
QS03	A6335470	Transistor, 2SC2712-Y
QS04	A6335470	Transistor, 2SC2712-Y
QS05	A6359870	Transistor, 2SC3326-B
QS06	A6359870	Transistor, 2SC3326-B
QS07	A6014040	Transistor, RN2404
QS08	A6359870	Transistor, 2SC3326-B
QS09	A6359870	Transistor, 2SC3326-B
QV01	23000369	IC, MM1495XD
QV02	A6317440	Transistor, 2SC1815-Y
QV06	A6541130	Transistor, 2SA1162-Y
QV07	A6335470	Transistor, 2SC2712-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6335470	Transistor, 2SC2712-Y
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
QX01	23906921	IC, TC90A61F
QX02	23000198	IC, EM636327Q-8
QX03	23905013	IC, TLC29321PW
QX04	23906951	IC, SN74AHCT1G32
QX05	23906951	IC, SN74AHCT1G32
QX07	23905939	IC, TLC2933IPW
QX08	23906951	IC, SN74AHCT1G32
QX09	23906951	IC, SN74AHCT1G32
QX11	23906318	IC, ADS932E
QX12	23906318	IC, ADS932E
QX15	23314345	Transistor, IMZ1 T108
QX16	23314345	Transistor, IMZ1 T108
QX17	23314345	Transistor, IMZ1 T108
QX18	23314345	Transistor, IMZ1 T108
QX19	A6541130	Transistor, 2SA1162-Y
QX20	A6030670	IC, TC7S66F
QX21	A6030630	IC, TC7S08F
QX22	23314345	Transistor, IMZ1 T108
QX24	23314345	Transistor, IMZ1 T108
QX25	23000197	IC, SN74AHC2G53H
QX26	A6541130	Transistor, 2SA1162-Y
QX27	A6030670	IC, TC7S66F
QX29	23314345	Transistor, IMZ1 T108
QX31	23314345	Transistor, IMZ1 T108
QX33	A6541130	Transistor, 2SA1162-Y
QX34	A6030670	IC, TC7S66F
QX35	23314345	Transistor, IMZ1 T108
QX37	A6335470	Transistor, 2SC2712-Y
QX38	A6335470	Transistor, 2SC2712-Y
QX39	A6335470	Transistor, 2SC2712-Y
QX41	A6335470	Transistor, 2SC2712-Y
QX42	A6335470	Transistor, 2SC2712-Y
QX44	A6335470	Transistor, 2SC2712-Y
QX45	A6335470	Transistor, 2SC2712-Y
QX47	A6335470	Transistor, 2SC2712-Y
QX48	A6335470	Transistor, 2SC2712-Y
QX49	23000095	IC, SN74AHC2G241
QX50	B0485484	IC, TC74HCT541AF
QX51	23906770	IC, BA033FP-E2
QX52	A6030695	IC, TC7SH32FU(BR
QX53	A6030695	IC, TC7SH32FU(BR
QX54	A6004010	Transistor, RN1401
QX55	B0370000	IC, TC78L05F
QX56	A6541130	Transistor, 2SA1162-Y
QX57	A6004010	Transistor, RN1401
QX58	A6004010	Transistor, RN1401
QZ01	B0410895	IC, TC90A49P
QZ02	A6335470	Transistor, 2SC2712-Y
QZ04	A6541130	Transistor, 2SA1162-Y
QZ05	A6541130	Transistor, 2SA1162-Y
QZ07	A6541130	Transistor, 2SA1162-Y
QZ08	A6335470	Transistor, 2SC2712-Y
D101	23316756	Diode, Zener, MTZJ33D
D201	23115599	Diode, 1N4148
D301	23316683	Diode, Zener, MTZJ8.2A
D302	23118094	Diode, EU2A, LF-F10
D303	23316731	Diode, Zener, MTZJ18B
D304	23316794	Diode, SC570ALFE2
D305	23118822	Diode, ERB12-02
D306	23118822	Diode, ERB12-02
D338	23115599	Diode, 1N4148
D370	23115599	Diode, 1N4148
D371	23115599	Diode, 1N4148
D401	23118094	Diode, EU2A, LF-F10

Location No.	Part No.	Description
D402	23118094	Diode, EU2A, LF-F10
D404	23316254	Diode, ERC06-15L
D406	A7978850	Diode, S5295G
D411	23316731	Diode, Zener, MTZJ18B
D413	23118707	Diode, RP 1H, LF-C1
D414	23118094	Diode, EU2A, LF-F10
D415	23118094	Diode, EU2A, LF-F10
D416	23118707	Diode, RP 1H, LF-C1
D422	23316686	Diode, Zener, MTZJ9.1A
D424	23115599	Diode, 1N4148
D448	23118094	Diode, EU2A, LF-F10
D450	23115599	Diode, 1N4148
D461	23224366	Diode, FMQ-3GU
D462	23316731	Diode, Zener, MTZJ18B
D471	23118094	Diode, EU2A, LF-F10
D475	23115774	Diode, Zener, RD6.2E(4)
D490	23316671	Diode, Zener, MTZJ5.6A
D501	23115599	Diode, 1N4148
D506	23316673	Diode, Zener, MTZJ5.6C
D507	23357037	Diode, Zener, UDZSTE175.6B
D508	23357037	Diode, Zener, UDZSTE175.6B
D509	23357037	Diode, Zener, UDZSTE175.6B
D511	23357037	Diode, Zener, UDZSTE175.6B
D512	23357037	Diode, Zener, UDZSTE175.6B
D513	23357037	Diode, Zener, UDZSTE175.6B
D610	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D615	23115599	Diode, 1N4148
D616	23115599	Diode, 1N4148
D617	23115599	Diode, 1N4148
D618	23115599	Diode, 1N4148
D621	23115599	Diode, 1N4148
D622	23115599	Diode, 1N4148
D623	23115599	Diode, 1N4148
D624	23115599	Diode, 1N4148
D625	23115599	Diode, 1N4148
D626	23115599	Diode, 1N4148
D627	23115599	Diode, 1N4148
D631	23115599	Diode, 1N4148
D631	23118269	Diode, Zener, RD22MB2
D632	23115599	Diode, 1N4148
D633	23115599	Diode, 1N4148
D634	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D642	23115599	Diode, 1N4148
D643	23115599	Diode, 1N4148
D644	23115599	Diode, 1N4148
D645	23115599	Diode, 1N4148
D646	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D761	23115599	Diode, 1N4148
D762	23115599	Diode, 1N4148
D763	23115599	Diode, 1N4148
D764	23115599	Diode, 1N4148
D781	23115599	Diode, 1N4148
D782	23115599	Diode, 1N4148
D783	23115599	Diode, 1N4148
D784	23115599	Diode, 1N4148

Location No.	Part No.	Description
D801	23316962	Diode, S1WBA20 4101
D802	23357041	Diode, LN6SB60-F05
D802B	72471082	Screw, BRDT2W3X10 SZN
D804	23316782	Diode, Zener, MTZJ6.2C
D805	23316686	Diode, Zener, MTZJ9.1A
D806	23316747	Diode, Zener, MTZJ27C
D809	23316753	Diode, Zener, MTZJ33A
D810	23316747	Diode, Zener, MTZJ27C
D811	23118057	Diode, AG01A
D812	23316688	Diode, Zener, MTZJ9.1C
D813	23118060	Diode, AL01Z
D814	23316672	Diode, Zener, MTZJ5.6B
D816	24000656	Varistor, TNR15G471K
D817	23115599	Diode, 1N4148
D818	23115599	Diode, 1N4148
D819	23115599	Diode, 1N4148
D820	23118173	Diode, RBV-406M, LA
D821	23316782	Diode, Zener, MTZJ6.2C
D822	23316381	Diode, RU1P LF-A5
D824	23118060	Diode, AL01Z
D825	23115599	Diode, 1N4148
D826	23115599	Diode, 1N4148
D827	23316749	Diode, Zener, MTZJ30A
D828	A7270200	Diode, Zener, 1Z6.2
D830	23115532	Diode, ERB12-01
D830	23316782	Diode, Zener, MTZJ6.2C (40WH08G)
D831	23115532	Diode, ERB12-01
D831	23316672	Diode, Zener, MTZJ5.6B (40WH08G)
D832	23357207	Diode, LN1WBA60
D833	23115532	Diode, ERB12-01
D833	23118057	Diode, AG01A (40WH08G)
D834	23115532	Diode, ERB12-01
D834	23316714	Diode, RL2Z(40WH08G)
D835	23118056	Diode, AG01 (40WH08G)
D841	23316381	Diode, RU1P LF-A5 (40WH08G)
D843	A7271460	Diode, 1Z30A (40WH08G)
D845	A7270300	Diode, Zener, 1Z7.5 (40WH08G)
D847	23118340	Diode, 1Z180FA (40WH08G)
D848	23115599	Diode, 1N4148 (40WH08G)
D854	23357214	Diode, D4SBS4
D855	23357215	Diode, D4SBS6
D855B	70391355	Screw, BITTB3X8 SZN
D856	23357216	Diode, D4SBL20U
D858	23115599	Diode, 1N4148
D859	23316768	Diode, FMB-26L
D859B	70391355	Screw, BITTB3X8 SZN
D860	23357217	Diode, D4SBL40
D860B	70391355	Screw, BITTB3X8 SZN
D862	23115599	Diode, 1N4148
D863	23316553	Diode, 1SS145
D86B	70391355	Screw, BITTB3X8 SZN
D891	23115599	Diode, 1N4148
D892	23316745	Diode, Zener, MTZJ27A
D893	23316669	Diode, Zener, MTZJ5.1B
D901	23115599	Diode, 1N4148
D902	23115599	Diode, 1N4148
D911	23115599	Diode, 1N4148
D912	23115599	Diode, 1N4148
D921	23115599	Diode, 1N4148
D922	23115599	Diode, 1N4148
D924	23115599	Diode, 1N4148

Location No.	Part No.	Description
D925	23115599	Diode, 1N4148
D931	23115599	Diode, 1N4148
D932	23115599	Diode, 1N4148
D933	23115599	Diode, 1N4148
D934	23115599	Diode, 1N4148
D936	A7568250	Diode, 1S1834
D941	23115599	Diode, 1N4148
D942	23115599	Diode, 1N4148
D943	23115599	Diode, 1N4148
D945	A7568250	Diode, 1S1834
D946	23115599	Diode, 1N4148
D963	23115599	Diode, 1N4148
D964	23115599	Diode, 1N4148
D965	23115599	Diode, 1N4148
D966	23115599	Diode, 1N4148
D967	A7568250	Diode, 1S1834
D4223	23115532	Diode, ERB12-01
D7701	23115599	Diode, 1N4148
D7702	23115599	Diode, 1N4148
D7705	23115599	Diode, 1N4148
D7706	23115599	Diode, 1N4148
D7707	23115599	Diode, 1N4148
D7708	23115599	Diode, 1N4148
D7709	23316675	Diode, Zener, MTZJ6.2B
D7714	23115599	Diode, 1N4148
D7715	23115599	Diode, 1N4148
D7716	23115599	Diode, 1N4148
D7717	23316675	Diode, Zener, MTZJ6.2B
D7718	23316675	Diode, Zener, MTZJ6.2B
D7719	23316675	Diode, Zener, MTZJ6.2B
D7720	23316675	Diode, Zener, MTZJ6.2B
D7721	23316675	Diode, Zener, MTZJ6.2B
D7722	23316675	Diode, Zener, MTZJ6.2B
D7730	23316675	Diode, Zener, MTZJ6.2B
D7736	23316675	Diode, Zener, MTZJ6.2B
D7738	23115599	Diode, 1N4148
D7739	23115599	Diode, 1N4148
D7740	23115599	Diode, 1N4148
D7741	23115599	Diode, 1N4148
D7742	23115599	Diode, 1N4148
D7743	23115599	Diode, 1N4148
D7745	23115599	Diode, 1N4148
D7746	23115599	Diode, 1N4148
D7747	23115599	Diode, 1N4148
D7748	23115599	Diode, 1N4148
D7749	23115599	Diode, 1N4148
D7760	23115599	Diode, 1N4148
D7800	23115599	Diode, 1N4148
D8040	23115599	Diode, 1N4148
D8540	23115599	Diode, 1N4148
D8550	23115599	Diode, 1N4148
D8560	23316653	Diode, Zener, MTZJ2.7B
D8570	23316749	Diode, Zener, MTZJ30A
D8580	23316753	Diode, Zener, MTZJ33A
D8600	23316184	Diode, FML-G12S
D8610	23115599	Diode, 1N4148
DA02	23115599	Diode, 1N4148
DA03	23115599	Diode, 1N4148
DA42	23316673	Diode, Zener, MTZJ5.6C
DB01	23358504	Diode (LED), SCL003URC3FX
DB02	23358503	Diode (LED), SCL003MC3FX
DB03	23358503	Diode (LED), SCL003MC3FX
DB04	23358515	Diode (LED), SCL003DC3FXG, Orange

Location No.	Part No.	Description
DD89	23118310	Diode, Zener, RD5.6M-T1B2
DF01	23316654	Diode, Zener, MTZJ3.0A
DF02	23115599	Diode, 1N4148 (40WH08G)
DR01	23115599	Diode, 1N4148
DR02	23115599	Diode, 1N4148
DR03	23115599	Diode, 1N4148
DR03	23118351	Diode, Zener, RD4.7M-T1BB2
DR61	23115599	Diode, 1N4148
DR62	23115599	Diode, 1N4148
DR63	23115599	Diode, 1N4148
DV01	23115599	Diode, 1N4148
DV14	23118296	Diode, Zener, RD9.1M-T1BB2

MISCELLANEOUS

B224	23035412	Screw, BTB 4X12 SZN
B230	23037312	Screw, BTBW 3X12 SZN
B232	23035412	Screw, BTB 4X12 SZN
B234	23037312	Screw, BTBW 3X12 SZN
B241	23035412	Screw, BTB 4X12 SZN
B330	23037312	Screw, BTBW 3X12 SZN
B337	23035412	Screw, BTB 4X12 SZN
BB14A	23903022	Socket, 8P
BB15A	23903022	Socket, 8P
BB21A	23903022	Socket, 8P
BB22A	23903022	Socket, 8P
E921	23964147	Coolant EG/G TCP
E951	23964147	Coolant EG/G TCP
E981	23964147	Coolant EG/G TCP
⚠F801	23144507	Fuse, 3.15A, 250V
F801A	23165433	Holder, Fuse
F801B	23165433	Holder, Fuse
G431	23237975	Coil, Peaking, TRF4101AC
G510	23289479	Coil, Peaking, TRF44R7AF
G527	24567104	PF, 0.1μF
G528	24567104	PF, 0.1μF
G529	24567104	PF, 0.1μF
GA82	24085981	EL, 10μF, ±20%, 16V, Non-Polar (40WH08G)
GC05	23289479	Coil, Peaking, TRF44R7AF
GF20	24000824	Chip Jumper, 2125Type (40WH08G)
GF21	24000824	Chip Jumper, 2125Type (40WH08G)
GF22	24000824	Chip Jumper, 2125Type (40WH08G)
GF23	24000824	Chip Jumper, 2125Type (40WH08G)
GF24	24000824	Chip Jumper, 2125Type (40WH08G)
GF25	24000824	Chip Jumper, 2125Type (40WH08G)
GF26	24000824	Chip Jumper, 2125Type (40WH08G)
GF27	24000824	Chip Jumper, 2125Type (40WH08G)
GF28	24000824	Chip Jumper, 2125Type (40WH08G)
GF29	24000824	Chip Jumper, 2125Type (40WH08G)
GF30	24000824	Chip Jumper, 2125Type (40WH08G)
GF50	24000824	Chip Jumper, 2125Type (40WH08G)

Location No.	Part No.	Description
GJ02	24000824	Chip Jumper, 2125Type (40WH08B)
GJ03	24000824	Chip Jumper, 2125Type
GJ03	24000824	Chip Jumper, 2125Type
GJ04	24000824	Chip Jumper, 2125Type
GJ05	24000824	Chip Jumper, 2125Type
GJ07	24000824	Chip Jumper, 2125Type (40WH08B)
GJ09	24000824	Chip Jumper, 2125Type (40WH08B)
GJ10	24000824	Chip Jumper, 2125Type (40WH08B)
GJ14	24000824	Chip Jumper, 2125Type
GJ15	24000824	Chip Jumper, 2125Type
GJ16	24000824	Chip Jumper, 2125Type
GJ17	24000824	Chip Jumper, 2125Type
GJ22	24000824	Chip Jumper, 2125Type
GJ23	24000824	Chip Jumper, 2125Type
GJ29	24000824	Chip Jumper, 2125Type
GJ30	24000824	Chip Jumper, 2125Type
GS01	24000824	Chip Jumper, 2125Type
GV03	23103832	Chip (Ferrite Bead), TEM2125M
GV04	23103832	Chip (Ferrite Bead), TEM2125M
GV05	24872101	Chip, 100 ohm, 1/16W
GV06	23103832	Chip (Ferrite Bead), TEM2125M
GV07	24000824	Chip Jumper, 2125Type
GV08	24000824	Chip Jumper, 2125Type
GV11	24000824	Chip Jumper, 2125Type
GV35	24872101	Chip, 100 ohm, 1/16W
GV41	24872102	Chip, 1k ohm, 1/16W
H002	23148732	Module, MPSA11A, NICAM/IGR A-PRO A
H002	23148732	Module, MPSA11A, NICAM/IGR A-PRO A
KB01	23904946	Remote Sensor, RPM-676CBR-S
P004	23161702	Terminal, 8P
P501A	23902650	Socket, B-B, 13P
P501B	23367722	Plug, B-B,13P
P502A	23902655	Socket, B-B, 15P
P502B	23367724	Plug, B-B,15P
P512A	23902863	Socket, 20P
P513A	23902863	Socket, 20P
P661	23365444	Jack, Earphone
P708	23902655	Socket, B-B, 15P
P709	23902655	Socket, B-B, 15P
P720	23164786	Plug, 6P
P777A	23368130	Plug, B-B,10P
P777B	23902213	Socket, B-B, 10P
⚠P801	23372052	Power Cord (40WH08G)
⚠P801	23372012	Power Cord (40WH08B)
PD04	23364092	Jack, Pin(Orange)
PD05	A5812240	IC, Optic Receiver, TORX176
PF01	23902655	Socket, B-B, 15P
PF01A	23367724	Plug, B-B,15P
PH001	23367724	Plug, B-B,15P
PH002	23367724	Plug, B-B,15P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23902604	Socket, 21P
PV01	23365450	Jack, 0S5P

Location No.	Part No.	Description
PV10B	23368520	Plug, B-B, 20P
PV11B	23368520	Plug, B-B, 20P
PX01A	23902655	Socket, B-B, 15P
PX01B	23367724	Plug, B-B,15P
PX02A	23902781	Socket, B-B, 12P
PX02B	23368531	Plug, B-B, 12P
S601	23344367	Switch, Slide, 6C2P
S631	23145412	Switch, Slide, 2C2P
⚠S801	23145434	Switch, Power, 2C2P
SA01	23145226	Switch, Push, 1C1P
SA02	23145226	Switch, Push, 1C1P
SA03	23145226	Switch, Push, 1C1P
SA04	23145226	Switch, Push, 1C1P
SA06	23145226	Switch, Push, 1C1P
SA07	23145226	Switch, Push, 1C1P
⚠SR80	23146574	Relay, DLS5D1-O(M) 0.15W
⚠SR81	23146574	Relay, DLS5D1-O(M) 0.15W
SR810	23146574	Relay, DLS5D1-O(M) 0.15W (40WH08G)
⚠V901A	23902019	Socket, CRT, 9P
⚠V902A	23902019	Socket, CRT, 9P
⚠V903A	23902019	Socket, CRT, 9P
W661	23351131	Speaker, SPK-1390, 120X120mm, 16 ohm
W662	23351131	Speaker, SPK-1390, 120X120mm, 16 ohm
X4401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153438	Crystal, 16.200MHz
XA01	23153497	Crystal, 16.0 MHz (40WH08B)
XA03	23153394	Crystal, 16.000000MHz (40WH08G)
XF01	23153421	Crystal, 20.48MHz
XF02	23153394	Crystal, 16.000000MHz
Z401	23140203	SG-GAP, SG99B3EN
⚠Z410	23110842	Focus Pack, TPA6031
Z410A	23505177	Focus Cable
⚠Z450	24082996	CR Block, TPA5007BH
Z450A	23504953	Anode Cable
Z801	23148734	Module, HIC1026A, PROTECTOR,HIC1026
⚠Z802	23144609	Protector, PRF5000PRT, DC60V, 5.0A
Z803	23144605	Protector, PRF20005PRT, DC60V, 2.0A
Z823	23144608	Protector, PRF40005PRT, DC60V, 4.0A (40WH08G)
⚠Z853	23144608	Protector, PRF40005PRT, DC60V, 4.0A
⚠Z854	23144609	Protector, PRF5000PRT, DC60V, 5.0A
⚠Z856	23144605	Protector, PRF20005PRT, DC60V, 2.0A
⚠Z857	23144607	Fuse, 2.0A, DC60V
⚠Z858	23144610	Protector, PRF63005PRT, DC60V, 6.3A
⚠Z859	23144610	Protector, PRF63005PRT, DC60V, 6.3A
⚠Z860	23144608	Protector, PRF40005PRT, DC60V, 4.0A
Z870	23144477	Protector, PRF1600F003, 125V, 1.6A(40WH08G)
Z880	23144603	Protector, PRF10005PRT, DC60V, 1.0A (40WH08G)

Location No.	Part No.	Description
ZH001	23103823	Filter, TEM2027D
ZH002	23103823	Filter, TEM2027D
ZH121	23103823	Filter, TEM2027D
ZH122	23103823	Filter, TEM2027D
ZH141	23103823	Filter, TEM2027D
ZH142	23103823	Filter, TEM2027D
ZH161	23103823	Filter, TEM2027D
ZH162	23103823	Filter, TEM2027D
ZX101	23103852	Filter, TEM2028AH
ZX201	23103823	Filter, TEM2027D
ZX202	23103823	Filter, TEM2027D
ZX321	23103823	Filter, TEM2027D
ZX341	23103823	Filter, TEM2027D
ZX361	23103823	Filter, TEM2027D
ZX401	23303181	Filter, TEM1012N
ZX402	23303181	Filter, TEM1012N

PC BOARD ASSEMBLIES

＊U104A	23784879	EPG-TEXT(CH)VER.2 Board, PB9511A(40WH08G)
＊U104A	23784365	EPG-TEXT(CH)VER.2 Board PB9411B(40WH08B)
＊U901A	23784855	CRT-D R Board, PB9483A-1
＊U901B	23784856	CRT-D G Board, PB9483A-2
＊U901C	23784857	CRT-D B Board, PB9483A-3
＊U901D	23784858	SVM-G Board, PB9483A-4
＊U901E	23784915	SVM-R Board, PB9483A-5
＊U901F	23784916	SVM-B Board, PB9483A-6
＊U902A	23784859	Signal Board, PB9484A-1 (40WH08G)
＊U902A	23785014	Signal Board, PB9484B-1 (40WH08B)
＊U902B	23784860	RGB SW Board, PB9484A-2 (40WH08G)
＊U902B	23785015	RGB SW Board, PB9484B-2 (40WH08B)
＊U904	23784850	DEF Board, PB9485A
＊U905	23784878	D-COMB&MCD(CH) Board, PB9510A
＊U907	23784851	D-CONVER Board, PB9486A
＊U908	23784852	Power Board, PB9487A (40WH08G)
＊U908	23785016	Power Board, PB9487B (40WH08B)
＊U909	23784853	CONVER Board, PB9488A
＊U910A	23784854	BACK AV Board, PB9489A-1
＊U910B	23784897	D-IN Board, PB9489A-2
＊U911A	23784629	FRONT Board, PB9406A-1
＊U911B	23784630	RMT Board, PB9406A-3
＊U911C	23784643	LED Board, PB9406A-2
＊U912	23784880	DFS(CH) VER.4 Board, PB9512A

PICTURE TUBE

⚠V911R	23908028	Projection Tube Ass'y, CRT-R
⚠V912B	23908029	Projection Tube Ass'y, CRT-B
⚠V912G	23908030	Projection Tube Ass'y, CRT-G

TUNER

H001	23321344	Tuner, EGA22LWX1 (40WH08G)
H001	23321346	Tuner, UF822BLW1 (40WH08B)

Location No.	Part No.	Description
ACCESSORIES		
K902	23306364	Remote Hand Unit, CT-90041 (40WH08G)
K902	23306365	Remote Hand Unit, CT-90042 (40WH08B)
AT03	23588265	Battery Cover
Y101E	23563924	Owner's Manual, English, 40WH08G
Y101E	23565020	Owner's Manual, English, 40WH08B
Y101F	23563925	Owner's Manual, French, 40WH08G
Y101G	23563921	Owner's Manual, German, 40WH08G
Y101I	23563922	Owner's Manual, Itarian, 40WH08G
Y101S	23563923	Owner's Manual, Spanish, 40WH08G
Y610	23150232	Speaker Box, SSV98
CABINET PARTS		
A101	23411367	Light Board
A102	23527078	Speaker Grille R
A103	23527079	Speaker Grille L
A125	23560038	Label
A201	23549940	Bezel
A202	23540077	Control Panel
A212	23450231	Control Panel
A213	23427828	Door
A214	70368125	Push Catch for Door
A223	23445386	Button, Power
A268	23450237	Front Panel
⚠A420	23549370	Back Cover
A424	23411329	Back Board
A501	23035412	Screw, BTB4X12SZN
A505	72471068	Screw, BIDT2 4X12BZ
A508	72471068	Screw, BIDT2 4X12BZ
A529	23037312	Screw, BTBW3X12SZN
A543	72471068	Screw, BIDT2 4X12BZ
A547	23035010	Screw, PBI 4X16
A701	23525571	Case
A703	23935998	Packing, Top
A710	23935999	Packing, Bottom
A711	23935506	PAD, Bottom
A726	23845450	Joint
K101	23430512	Delta, DELTA67-A/B
K102	23430512	Delta, DELTA67-A/B
K103	23430512	Delta, DELTA67-A/B
K501	23430781	Lenti Sheet, SCREEN40KKUL
K502	23430790	Fresnel Sheet, SCREEN40KKUF
K601	23430752	Millor, MIRROR40KEB

Location No.	Part No.	Description

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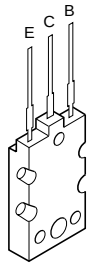
TERMINAL VIEW OF TRANSISTORS

① 2SD2253
(old)
2SC5243



② 2SC3852
2SD1763A
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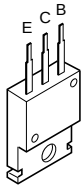
2SC4544
2SA1788
2SA1306
2SA1186A



③ 2SC752GTM
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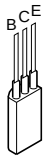
2SC4721P



④ 2SC752
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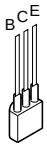
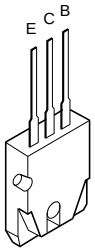


⑤ 2SA1788



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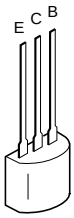
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



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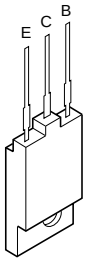
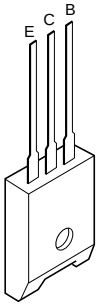


⑧ ON4409



SPECIFICATIONS (Representative : 40WH08G)

Rated voltage		AC 230 V, 50/60 Hz
Power consumption (at AC 220 V, 50 Hz)		220 W (Approx.)
Dimensions (Width × Height × Depth)		963.2 mm × 1119.7 mm × 466 mm
Mass		51.0 kg
Screen size		Type 40
Television system (Aerial input)	Channel coverage	**System** **Channel** **VHF** **UHF** **CATV** PAL B/G CCIR 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 PAL I UK — 21 – 69 — SECAM L CCIR * 21 – 69 * VHF : B-C ; 1-6, B-Q, 71-86 SECAM D/K OIRT 1 – 12 21 – 69 X1 ~ X19
	Special RF signal	**Colour system** **Sound system** 4.43NTSC 5.5/6.0/6.5 MHz PAL 60Hz 5.5/6.0/6.5 MHz
Colour system		PAL/SECAM/4.43NTSC/3.58NTSC
Sound output		14 W + 14 W (Main), 20 W (Center), 10 W + 10 W (Rear)
Accessories		• Remote control unit × 1 • Battery (R03, AAA) × 2

* Please refer to owner's manual in detail.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN